

Tap-Star

High performance threading Tap

- High toughness HSS substrate for improved chipping resistance
- Optimally designed shape for various workpiece cutting



High performance threading Tap

Tap-Star

KORLOY launched the HSS Tap with various advantages such as price and quality in order to increase customer productivity.

Tap-Star extended its tool life by enhancing the toughness of its HSS substrate, and special treatment of the chamfer cutting edge improved chipping resistance. In addition, its TiAlN coating ensures high oxidization resistance and wear resistance.

KORLOY Tap-Star HSS Tap provides a threading solution increasing customer productivity with a long tool life and highly efficient machining.

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» **Higher chipping resistance**

- Chipping reduced by applying high toughness substrate
- Special chamfer edge treatment

» **Optimal shape**

- Flute shape for smooth chip evacuation
- Designed with an optimal relief angle for high chipping resistance

» **Higher wear resistance**

- TiAlN coating with high temperature oxidation resistance

» **Cost efficiency of tool**

- Providing the best performance and quality



Code system

S	V	Q	A	M	06	100	25	(S)
Tap-Star	Substrate V: HSSE	Type G: Straight(DIN) D: Point(DIN) Q: Spiral(DIN) M: Roll(DIN) S: Straight(JIS) P: Spiral(JIS) N: Point(JIS) R: Roll(JIS)	Surface treatment A: TiAlN N: Nitride H: Homo O: Bright T: TiN C: TiCN	Thread M: Meter thread	Size 06: M6 12: M12	Pitch 050: 0.5 100: 1.0 150: 1.5	Chamfer length 15: 1.5P 20: 2.0P 25: 2.5P 40: 4.0P 50: 5.0P	Oil groove S: 1 oil groove M: 4 oil grooves

Features

Optimal flute shape

- Smooth chip flow



ISO13399 Terms

TDZ	Thread diameter size
TP	Thread pitch
LU	Usable length (max. recommended)
CZC-MS	Connection size code machine side
DCON-WS	Connection diameter workpiece side
DCON-MS	Connection diameter machine side
TD	Thread diameter
LF	Functional length
THL	Thread length
NOF	Flute count
PHD	Premachined hole diameter
BSG	Basic standard group
THCHT	Threading chamfer type
TCTR	Thread tolerance class

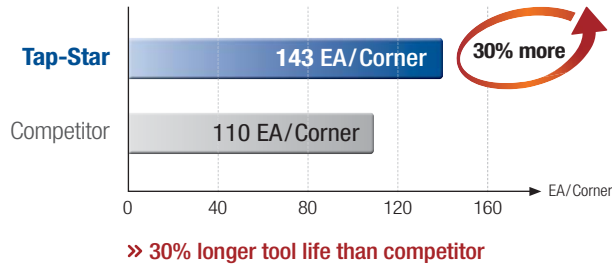
Icon guide

Shank type		Tool type		Coating		Workpiece		Chamfer lead		Thread type		Class of thread		Substrate	
DIN	DIN	Spiral flute	SFT	Un-coated	Bright	Black ring	P(K)	Form C (chamfer lead 2~3 Thread)	C form	M	M	6H	6H	HSSE	HSSE
JIS	JIS	Spiral point	SPT	HOMO	HOMO	Green ring	K	Form B (chamfer lead 4~5 Thread)	B form	MF	MF	6HX	6HX	-	-
-	-	Straight	STT	Nitride	Nitride	Blue ring	M(H)	Form E (chamfer lead 1.5~2 Thread)	E form	-	-	ISO H2~4	H2~4	-	-
-	-	Roll	RT	TiN	TiN	Yellow ring	N	-	-	-	-	ISO H5~8	H5~8	-	-
-	-	-	-	TiCN	TiCN	-	-	-	-	-	-	ISO H6~7	H6~7	-	-
-	-	-	-	TiAlN	TiAlN	-	-	-	-	-	-	-	-	-	-

Application examples

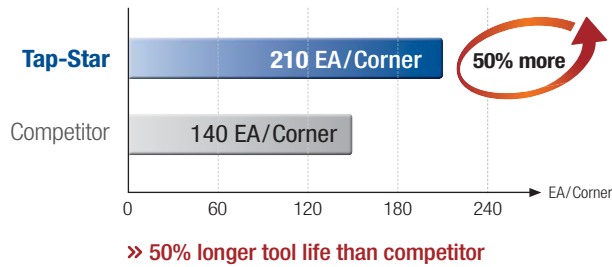
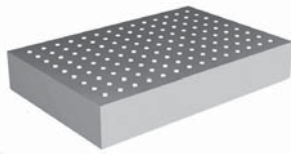
Alloy steel (SNCM439)

Workpiece use	Cutting tool
Cutting condition	Premachined hole diameter (Ø) = 3.5, vc (m/min) = 5, ap (mm) = 13, wet
Tool	SVDAM0407050 (M4x0.7)



Pre-hardened steel (KP4M)

Workpiece use	Plate
Cutting condition	Premachined hole diameter (Ø) = 8.5, vc (m/min) = 8, ap (mm) = 15, wet
Tool	SVQAM1015025 (M10x1.5)



Recommended cutting conditions

◎ : Recommended ○ : Applicable △ : Usable - : unusable

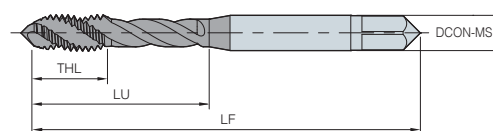
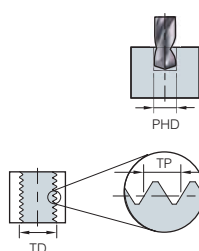
Workpiece				Cutting speed, vc(m/min)					Cutting fluid			
ISO	Workpiece material	DIN	JIS	Straight Tap	Spiral Tap	Point Tap	Carbide Tap	Roll Tap	Insoluble	Water soluble (emulsion)	Semi dry	Dry
P	Low carbon steel	< C25	< S25C	8~13	8~13	15~25	-	8~13	◎	○	△	△
	Medium carbon steel	C25~C45	S25C~S45C	7~12	7~12	10~15	-	7~10	◎	○	△	△
	High carbon steel	> C45	> S45C	6~9	6~9	8~13	-	5~8	◎	○	△	△
	Alloy steel	CrMoS4	SCM	7~12	7~12	10~15	-	5~8	◎	△	△	△
	Quenched and tempered steel	25~45HRC		3~5	3~5	4~6	-	-	◎	△	-	-
	Tool steel	X30WCrV9.3	SKD	6~9	6~9	7~10	-	-	◎	-	-	-
M	Cast steel	GS	SC	6~11	6~11	10~15	-	-	◎	○	-	-
	Stainless steel	CrNi	SUS	4~7	5~8	8~13	-	5~10	◎	○	-	-
K	Precipitation hardened stainless steel	X5CrNiCuNb16-4 X7CrNiAl7-7	SUS630 SUS631	3~5	3~5	4~6	-	-	◎	-	-	-
	Cast iron	GG	FC	10~15	-	-	10~20	-	◎	○	○	○
N	Ductile cast iron	GGG	FCD	7~12	7~12	10~20	10~20	-	◎	○	○	-
	Copper	Cu	Cu	6~9	6~11	7~12	10~20	7~12	○	○	-	-
	Brass, brass-cast	17660	Bs BsC	10~15	10~20	15~25	15~25	7~12	○	○	-	-
	Bronze, bronze-cast	-	CAC	6~11	6~11	10~20	10~20	7~12	○	○	-	-
	Rolled aluminum	Awxx	Axx	10~20	10~20	15~25	-	10~20	◎	○	△	-
	Aluminum-cast, alloyed	G-AlSi, GD-AlMg	AC, ALDC	10~15	10~15	15~20	10~20	10~25	◎	○	△	-
	Magnesium-cast, alloyed	MC	MC	7~12	7~12	10~15	10~20	-	◎	○	○	-
	Zinc-cast, alloyed	-	ZDC	1~12	7~12	10~15	10~20	7~12	◎	○	△	-
	Thermosetting plastic	Bakelite phenol epoxy		10~20	-	-	15~25	-	-	○	○	○
	Thermoplastic	Nylon vinyl chloride		10~20	10~15	10~20	10~20	-	-	○	○	○

 Line-up

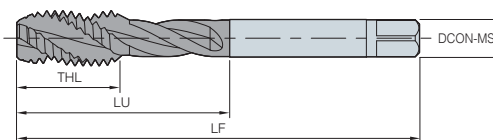
Type	Designation	Picture	Product name	Coated	Size	
					Min.	Max.
DIN	Spiral	SVQAM	Spiral flute Tap	TiAlN	M2	M24
		SVQNM		Nitride	M2	M24
		SVQHM 		Homo	M2	M24
		SVQOM		-	M2	M24
	Point	SVDAM	Spiral point Tap	TiAlN	M2	M24
		SVDNM		Nitride	M2	M24
		SVDHM 		Homo	M2	M24
		SVDOM		-	M2	M24
	Straight	SVGAM	Straight flute Tap	TiAlN	M3	M24
	Roll	SVMOM	Roll Tap	-	M3	M12
		SVMTM		TiN	M3	M12
		SVMCM		TiCN	M3	M12
JIS	Spiral	SVPAM	Spiral flute Tap	TiAlN	M2	M24
		SVPNM 		Nitride	M2	M24
		SVPHM		Homo	M2	M24
		SVPOM		-	M2	M24
	Point	SVNAM	Spiral point Tap	TiAlN	M2	M24
		SVNNM		Nitride	M2	M24
		SVNHM 		Homo	M2	M24
		SVNOM		-	M2	M24
	Straight	SVSAM	Straight flute Tap	TiAlN	M3	M24
	Roll	SVROM	Roll Tap	-	M3	M12
		SVRTM		TiN	M3	M12
		SVRCM		TiCN	M3	M12

SVQAM

Spiral flute Tap



M6/MF6 or below



M8/MF8 or above

(mm)

Designation		TDZ	TP	LU	CZC-MS	DCON-MS	TD	LF	THL	NOF	PHD	BSG
SVQAM	0204025	M2	0.4	12.5	2.8 x 2.1	2.8	2	45	8	3	1.6	DIN371
	025045025	M2.5	0.45	15	2.8 x 2.1	2.8	2.5	50	9	3	2.1	DIN371
	0305025	M3	0.5	17	3.5 x 2.7	3.5	3	56	6	3	2.5	DIN371
	0407025	M4	0.7	20.5	4.5 x 3.4	4.5	4	63	7.5	3	3.3	DIN371
	0508025	M5	0.8	25	6 x 4.9	6	5	70	9	3	4.2	DIN371
	0610025	M6	1	29	6 x 4.9	6	6	80	11	3	5	DIN371
	0812525	M8	1.25	34	8 x 6.2	8	8	90	13	3	6.8	DIN371
	1015025	M10	1.5	38	10 x 8	10	10	100	16	3	8.5	DIN371
	1217525	M12	1.75	40	9 x 7	9	12	110	18	3	10.2	DIN376
	1420025	M14	2	45	11 x 9	11	14	110	20	4	12	DIN376
	1620025	M16	2	52	12 x 9	12	16	110	20	4	14	DIN376
	1825025	M18	2.5	55	14 x 11	14	18	125	22	4	15.5	DIN376
	2025025	M20	2.5	58	16 x 12	16	20	140	25	4	17.5	DIN376
	2225025	M22	2.5	63	18 x 14.5	18	22	140	25	4	19.5	DIN376
	2430025	M24	3	66	18 x 14.5	18	24	160	28	4	21	DIN376
	0405025	MF4	0.5	20.5	2.8 x 2.1	2.8	4	63	7.5	3	3.5	DIN374
	0505025	MF5	0.5	24	3.5 x 2.7	3.5	5	70	8	3	4.5	DIN374
	0507525	MF5	0.75	24	3.5 x 2.7	3.5	5	70	8	3	4.8	DIN374
	0605025	MF6	0.5	26	4.5 x 3.4	4.5	6	80	8	3	5.5	DIN374
	0607525	MF6	0.75	26	4.5 x 3.4	4.5	6	80	8	3	5.3	DIN374
	0807525	MF8	0.75	34	6 x 4.9	6	8	80	10	3	7.3	DIN374
	0810025	MF8	1	34	6 x 4.9	6	8	90	10	3	7	DIN374
	1007525	MF10	0.75	38	7 x 5.5	7	10	90	14	3	9.3	DIN374
	1010025	MF10	1	38	7 x 5.5	7	10	90	14	3	9	DIN374
	1012525	MF10	1.25	38	7 x 5.5	7	10	100	14	3	8.8	DIN374
	1210025	MF12	1	48	9 x 7	9	12	100	14	3	11	DIN374
	1212525	MF12	1.25	48	9 x 7	9	12	100	14	3	10.8	DIN374
	1215025	MF12	1.5	48	9 x 7	9	12	100	14	3	10.5	DIN374
	1410025	MF14	1	48	11 x 9	11	14	100	18	3	13	DIN374
	1412525	MF14	1.25	48	11 x 9	11	14	100	18	3	12.8	DIN374
	1415025	MF14	1.5	48	11 x 9	11	14	100	18	3	12.5	DIN374
	1610025	MF16	1	52	12 x 9	12	16	100	18	4	15	DIN374
	1612525	MF16	1.25	52	12 x 9	12	16	100	18	4	14.8	DIN374
	1615025	MF16	1.5	52	12 x 9	12	16	100	18	4	14.5	DIN374
	1815025	MF18	1.5	55	14 x 11	14	18	110	18	4	16.5	DIN374
	1820025	MF18	2	55	14 x 11	14	18	125	22	4	16	DIN374
	2015025	MF20	1.5	58	16 x 12	16	20	125	25	4	18.5	DIN374
	2020025	MF20	2	58	16 x 12	16	20	140	25	4	18	DIN374
	2215025	MF22	1.5	63	18 x 14.5	18	22	125	25	4	20.5	DIN374
	2415025	MF24	1.5	66	18 x 14.5	18	24	140	25	4	22.5	DIN374
	2420025	MF24	2	66	18 x 14.5	18	24	140	25	4	22	DIN374

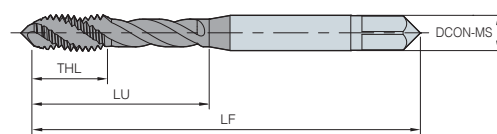
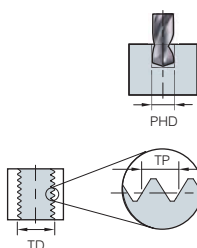
• Applicable workpiece range

◎ : Excellent ○ : Good

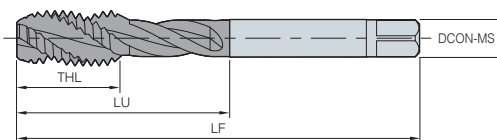
Division	Carbon steel			Alloy steel	Quenched and tempered steel			Stainless steel	Tool steel	Cast steel	Cast iron	Ductile cast iron	Copper	Brass	Brass cast	Bronze	Aluminum rolled material	Aluminum cast, alloyed	Magnesium cast, alloyed	Zinc cast, alloyed	Titanium alloy	Nickel alloy	Thermo setting plastic	Thermo plastic
DIN	~C25	C25~C45	C45~	CrMoS4	25~45 Hrc	45~55 Hrc	50~60 Hrc	CrNi	X30W CrV9.3	GS	GG	GGG	Cu	17660	17660	CAC	AWxx	G-AISI, GD-AIMg	MC	-	Ti	Ni	Bakelite phenol epoxy	Nylon vinyl chloride
JIS	~S25C	S25C~S45C	S45C~	SCM				SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	CAC	Axx	AC, ALDC	MC	ZDC	Ti	Ni		
	◎	◎	◎	◎	○					◎	○	○						◎						

SVQNM

Spiral flute Tap



M6/MF6 or below



M8/MF8 or above

(mm)

Designation	TDZ	TP	LU	CZC-MS	DCON-MS	TD	LF	THL	NOF	PHD	BSG
SVQNM											
0204025	M2	0.4	12.5	2.8 x 2.1	2.8	2	45	8	3	1.6	DIN371
025045025	M2.5	0.45	15	2.8 x 2.1	2.8	2.5	50	9	3	2.1	DIN371
0305025	M3	0.5	17	3.5 x 2.7	3.5	3	56	6	3	2.5	DIN371
0407025	M4	0.7	20.5	4.5 x 3.4	4.5	4	63	7.5	3	3.3	DIN371
0508025	M5	0.8	25	6 x 4.9	6	5	70	9	3	4.2	DIN371
0610025	M6	1	29	6 x 4.9	6	6	80	11	3	5	DIN371
0812525	M8	1.25	34	8 x 6.2	8	8	90	13	3	6.8	DIN371
1015025	M10	1.5	38	10 x 8	10	10	100	16	3	8.5	DIN371
1217525	M12	1.75	40	9 x 7	9	12	110	18	3	10.2	DIN376
1420025	M14	2	45	11 x 9	11	14	110	20	3	12	DIN376
1620025	M16	2	52	12 x 9	12	16	110	20	4	14	DIN376
1825025	M18	2.5	55	14 x 11	14	18	125	22	4	15.5	DIN376
2025025	M20	2.5	58	16 x 12	16	20	140	25	4	17.5	DIN376
2225025	M22	2.5	63	18 x 14.5	18	22	140	25	4	19.5	DIN376
2430025	M24	3	66	18 x 14.5	18	24	160	28	4	21	DIN376
0405025	MF4	0.5	20.5	2.8 x 2.1	2.8	4	63	7.5	3	3.5	DIN374
0505025	MF5	0.5	25	3.5 x 2.7	3.5	5	70	8	3	4.5	DIN374
0607525	MF6	0.75	30	4.5 x 3.4	4.5	6	80	8	3	5.3	DIN374
0807525	MF8	0.75	30	6 x 4.9	6	8	80	10	3	7.3	DIN374
0810025	MF8	1	34	6 x 4.9	6	8	90	13	3	7	DIN374
1007525	MF10	0.75	39	7 x 5.5	7	10	90	14	3	9.3	DIN374
1010025	MF10	1	39	7 x 5.5	7	10	90	14	3	9	DIN374
1012525	MF10	1.25	38	7 x 5.5	7	10	100	16	3	8.8	DIN374
1210025	MF12	1	48	9 x 7	9	12	100	14	3	11	DIN374
1212525	MF12	1.25	48	9 x 7	9	12	100	14	3	10.8	DIN374
1215025	MF12	1.5	48	9 x 7	9	12	100	14	3	10.5	DIN374
1410025	MF14	1	48	11 x 9	11	14	100	18	3	13	DIN374
1415025	MF14	1.5	48	11 x 9	11	14	100	18	3	12.5	DIN374
1610025	MF16	1	52	12 x 9	12	16	100	18	4	15	DIN374
1615025	MF16	1.5	52	12 x 9	12	16	100	18	4	14.5	DIN374
1815025	MF18	1.5	55	14 x 11	14	18	110	18	4	16.5	DIN374
1820025	MF18	2	55	14 x 11	14	18	125	22	4	16	DIN374
2015025	MF20	1.5	58	16 x 12	16	20	125	25	4	18.5	DIN374
2215025	MF22	1.5	63	18 x 14.5	18	22	125	25	4	20.5	DIN374
2415025	MF24	1.5	66	18 x 14.5	18	24	140	25	4	22.5	DIN374
2420025	MF24	2	66	18 x 14.5	18	24	140	25	4	22	DIN374

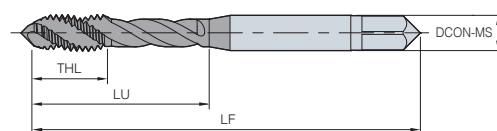
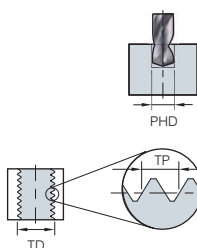
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◎ : Excellent ○ : Good

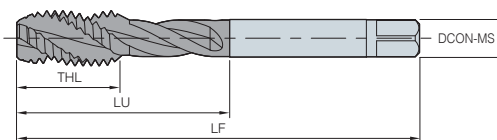
Division	Carbon steel			Alloy steel	Quenched and tempered steel			Stainless steel	Tool steel	Cast steel	Cast iron	Ductile cast iron	Copper	Brass	Brass cast	Bronze	Aluminum rolled material	Aluminum cast, alloyed	Magnesium cast, alloyed	Zinc cast, alloyed	Titanium alloy	Nickel alloy	Thermo setting plastic	Thermo plastic
DIN	~C25	C25~C45	C45~	CrMoS4	25~45 Hrc	45~55 Hrc	50~60 Hrc	CrNi	X30W CrV9.3	GS	GG	GGG	Cu	17660	17660	CAC	AWxx	G-AISI, GD-AIMg	MC	-	Ti	Ni	Bakelite phenol epoxy	Nylon vinyl chloride
JIS	~S25C	S25C~S45C	S45C~	SCM				SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	CAC	Axx	AC, ALDC	MC	ZDC	Ti	Ni		
	○	○	○	○	○			◎	○	○	○	◎						○			○	○	○	

SVQHM

Spiral flute Tap



M6/MF6 or below



M8/MF8 or above

(mm)

Designation		TDZ	TP	LU	CZC-MS	DCON-MS	TD	LF	THL	NOF	PHD	BSG
SVQHM	0204025	M2	0.4	12.5	2.8 x 2.1	2.8	2	45	8	3	1.6	DIN371
	025045025	M2.5	0.45	15	2.8 x 2.1	2.8	2.5	50	9	3	2.1	DIN371
	0305025	M3	0.5	17	3.5 x 2.7	3.5	3	56	6	3	2.5	DIN371
	0407025	M4	0.7	20.5	4.5 x 3.4	4.5	4	63	7.5	3	3.3	DIN371
	0508025	M5	0.8	25	6 x 4.9	6	5	70	9	3	4.2	DIN371
	0610025	M6	1	29	6 x 4.9	6	6	80	11	3	5	DIN371
	0812525	M8	1.25	34	8 x 6.2	8	8	90	13	3	6.8	DIN371
	1015025	M10	1.5	38	10 x 8	10	10	100	16	3	8.5	DIN371
	1217525	M12	1.75	40	9 x 7	9	12	110	18	3	10.2	DIN376
	1420025	M14	2	45	11 x 9	11	14	110	20	3	12	DIN376
	1620025	M16	2	52	12 x 9	12	16	110	20	4	14	DIN376
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	2025025	M20	2.5	58	16 x 12	16	20	140	25	4	17.5	DIN376
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	0405025	MF4	0.5	20.5	2.8 x 2.1	2.8	4	63	7.5	3	3.5	DIN374
	0505025	MF5	0.5	25	3.5 x 2.7	3.5	5	70	8	3	4.5	DIN374
	0607525	MF6	0.75	30	4.5 x 3.4	4.5	6	80	8	3	5.3	DIN374
	0807525	MF8	0.75	30	6 x 4.9	6	8	80	10	3	7.3	DIN374
	0810025	MF8	1	34	6 x 4.9	6	8	90	13	3	7	DIN374
	1007525	MF10	0.75	39	7 x 5.5	7	10	90	14	3	9.3	DIN374
	1010025	MF10	1	39	7 x 5.5	7	10	90	14	3	9	DIN374
	1012525	MF10	1.25	38	7 x 5.5	7	10	100	16	3	8.8	DIN374
	1210025	MF12	1	48	9 x 7	9	12	100	14	3	11	DIN374
	1212525	MF12	1.25	48	9 x 7	9	12	100	14	3	10.8	DIN374
	1215025	MF12	1.5	48	9 x 7	9	12	100	14	3	10.5	DIN374
	1410025	MF14	1	48	11 x 9	11	14	100	18	3	13	DIN374
	1415025	MF14	1.5	48	11 x 9	11	14	100	18	3	12.5	DIN374
	1610025	MF16	1	52	12 x 9	12	16	100	18	4	15	DIN374
	1615025	MF16	1.5	52	12 x 9	12	16	100	18	4	14.5	DIN374
	1815025	MF18	1.5	55	14 x 11	14	18	110	18	4	16.5	DIN374
	1820025	MF18	2	55	14 x 11	14	18	125	22	4	16	DIN374
	2015025	MF20	1.5	58	16 x 12	16	20	125	25	4	18.5	DIN374
	2215025	MF22	1.5	63	18 x 14.5	18	22	125	25	4	20.5	DIN374
	2415025	MF24	1.5	66	18 x 14.5	18	24	140	25	4	22.5	DIN374
	2420025	MF24	2	66	18 x 14.5	18	24	140	25	4	22	DIN374

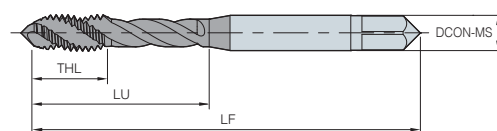
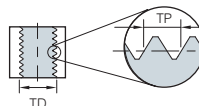
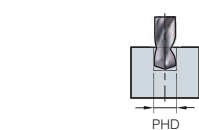
• Applicable workpiece range

◎ : Excellent ○ : Good

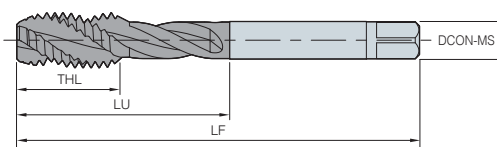
Division	Carbon steel			Alloy steel	Quenched and tempered steel			Stainless steel	Tool steel	Cast steel	Cast iron	Ductile cast iron	Copper	Brass	Brass cast	Bronze	Aluminum rolled material	Aluminum cast, alloyed	Magnesium cast, alloyed	Zinc cast, alloyed	Titanium alloy	Nickel alloy	Thermo setting plastic	Thermo plastic
DIN	~C25	C25~C45	C45~	CrMoS4	25~45 Hrc	45~55 Hrc	50~60 Hrc	CrNi	X30W CrV9.3	GS	GG	GGG	Cu	17660	17660	CAC	AWxx	G-AISI, GD-AIMg	MC	-	Ti	Ni	Bakelite phenol epoxy	Nylon vinyl chloride
JIS	~S25C	S25C~S45C	S45C~	SCM				SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	CAC	Axx	AC, ALDC	MC	ZDC	Ti	Ni		
	◎	◎	◎	◎	○					◎	○	○						◎						

SVQOM

Spiral flute Tap



M6/MF6 or below



M8/MF8 or above

(mm)

Designation		TDZ	TP	LU	CZC-MS	DCON-MS	TD	LF	THL	NOF	PHD	BSG
SVQOM	0204025	M2	0.4	12.5	2.8 x 2.1	2.8	2	45	8	2	1.6	DIN371
	025045025	M2.5	0.45	15	2.8 x 2.1	2.8	2.5	50	9	2	2.1	DIN371
	0305025	M3	0.5	17	3.5 x 2.7	3.5	3	56	6	2	2.5	DIN371
	0407025	M4	0.7	20.5	4.5 x 3.4	4.5	4	63	7.5	2	3.3	DIN371
	0508025	M5	0.8	25	6 x 4.9	6	5	70	9	2	4.2	DIN371
	0610025	M6	1	29	6 x 4.9	6	6	80	11	2	5	DIN371
	0812525	M8	1.25	34	8 x 6.2	8	8	90	13	2	6.8	DIN371
	1015025	M10	1.5	38	10 x 8	10	10	100	16	2	8.5	DIN371
	1217525	M12	1.75	40	9 x 7	9	12	110	18	3	10.2	DIN376
	1420025	M14	2	45	11 x 9	11	14	110	20	3	12	DIN376
	1620025	M16	2	52	12 x 9	12	16	110	20	3	14	DIN376
	1825025	M18	2.5	55	14 x 11	14	18	125	22	4	15.5	DIN376
	2025025	M20	2.5	58	16 x 12	16	20	140	25	4	17.5	DIN376
	2225025	M22	2.5	63	18 x 14.5	18	22	140	25	4	19.5	DIN376
	2430025	M24	3	66	18 x 14.5	18	24	160	28	4	21	DIN376
	0405025	MF4	0.5	20.5	2.8 x 2.1	2.8	4	63	7.5	2	3.5	DIN374
	0505025	MF5	0.5	25	3.5 x 2.7	3.5	5	70	8	2	4.5	DIN374
	0607525	MF6	0.75	30	4.5 x 3.4	4.5	6	80	8	2	5.3	DIN374
	0807525	MF8	0.75	30	6 x 4.9	6	8	80	10	2	7.3	DIN374
	0810025	MF8	1	34	6 x 4.9	6	8	90	13	2	7	DIN374
	1007525	MF10	0.75	38	7 x 5.5	7	10	90	14	2	9.3	DIN374
	1010025	MF10	1	38	7 x 5.5	7	10	90	14	2	9	DIN374
	1012525	MF10	1.25	38	7 x 5.5	7	10	100	16	2	8.8	DIN374
	1210025	MF12	1	48	9 x 7	9	12	100	14	3	11	DIN374
	1212525	MF12	1.25	48	9 x 7	9	12	100	14	3	10.8	DIN374
	1215025	MF12	1.5	48	9 x 7	9	12	100	14	3	10.5	DIN374
	1410025	MF14	1	48	11 x 9	11	14	100	18	3	13	DIN374
	1415025	MF14	1.5	48	11 x 9	11	14	100	18	3	12.5	DIN374
	1610025	MF16	1	52	12 x 9	12	16	100	18	3	15	DIN374
	1615025	MF16	1.5	52	12 x 9	12	16	100	18	3	14.5	DIN374
	1815025	MF18	1.5	55	14 x 11	14	18	110	18	4	16.5	DIN374
	1820025	MF18	2	55	14 x 11	14	18	125	22	4	16	DIN374
	2015025	MF20	1.5	58	16 x 12	16	20	125	25	4	18.5	DIN374
	2215025	MF22	1.5	63	18 x 14.5	18	22	125	25	4	20.5	DIN374
	2415025	MF24	1.5	66	18 x 14.5	18	24	140	25	4	22.5	DIN374
	2420025	MF24	2	66	18 x 14.5	18	24	140	25	4	22	DIN374

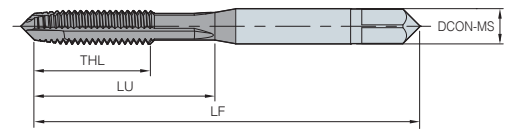
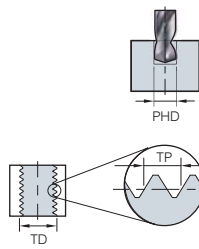
• Applicable workpiece range

◎ : Excellent ○ : Good

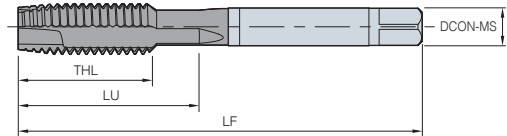
Division	Carbon steel			Alloy steel	Quenched and tempered steel			Stainless steel	Tool steel	Cast steel	Cast iron	Ductile cast iron	Copper	Brass	Brass cast	Bronze	Aluminum rolled material	Aluminum cast, alloyed	Magnesium cast, alloyed	Zinc cast, alloyed	Titanium alloy	Nickel alloy	Thermo setting plastic	Thermo plastic
DIN	~C25	C25~C45	C45~	CrMoS4	25~45 Hrc	45~55 Hrc	50~60 Hrc	CrNi	X30W CrV9.3	GS	GG	GGG	Cu	17660	17660	CAC	AWxx	G-AISI, GD-AIMg	MC	-	Ti	Ni	Bakelite phenol epoxy	Nylon vinyl chloride
JIS	~S25C	S25C~S45C	S45C~	SCM				SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	CAC	Axx	AC, ALDC	MC	ZDC	Ti	Ni		
													◎	◎	◎	◎	◎	◎	○	○			◎	

SVDAM

Spiral point Tap



M10/MF10 or below



M12/MF12 or above

(mm)

Designation	TDZ	TP	LU	CZC-MS	DCON-MS	TD	LF	THL	NOF	PHD	BSG
SVDAM											
0204050	M2	0.4	12.5	2.8 x 2.1	2.8	2	45	8	3	1.6	DIN371
022045050	M2.2	0.45	15	2.8 x 2.1	2.8	2.2	45	9	3	1.8	DIN371
025045050	M2.5	0.45	15	2.8 x 2.1	2.8	2.5	50	9	3	2.1	DIN371
0305050	M3	0.5	18	3.5 x 2.7	3.5	3	56	11	3	2.5	DIN371
03506050	M3.5	0.6	20	4 x 3	4	3.5	56	13	3	2.9	DIN371
0407050	M4	0.7	21	4.5 x 3.4	4.5	4	63	13	3	3.3	DIN371
0508050	M5	0.8	25	6 x 4.9	6	5	70	16	3	4.2	DIN371
0610050	M6	1	30	6 x 4.9	6	6	80	19	3	5	DIN371
0812550	M8	1.25	35	8 x 6.2	8	8	90	22	3	6.8	DIN371
1015050	M10	1.5	39	10 x 8	10	10	100	24	3	8.5	DIN371
1217550	M12	1.75	40	9 x 7	9	12	110	29	3	10.2	DIN376
1420050	M14	2	45	11 x 9	11	14	110	30	3	12	DIN376
1620050	M16	2	52	12 x 9	12	16	110	32	3	14	DIN376
1825050	M18	2.5	55	14 x 11	14	18	125	34	3	15.5	DIN376
2025050	M20	2.5	58	16 x 12	16	20	140	34	4	17.5	DIN376
2225050	M22	2.5	63	18 x 14.5	18	22	140	34	4	19.5	DIN376
2430050	M24	3	66	18 x 14.5	18	24	160	38	4	21	DIN376
0405050	MF4	0.5	18	2.8 x 2.1	2.8	4	63	10	3	3.5	DIN374
0505050	MF5	0.5	25	3.5 x 2.7	3.5	5	70	12	3	4.5	DIN374
0507550	MF5	0.75	25	3.5 x 2.7	3.5	5	70	12	3	4.8	DIN374
0605050	MF6	0.5	25	4.5 x 3.4	4.5	6	80	14	3	5.5	DIN374
0607550	MF6	0.75	25	4.5 x 3.4	4.5	6	80	14	3	5.3	DIN374
0807550	MF8	0.75	35	6 x 4.9	6	8	80	19	3	7.3	DIN374
0810050	MF8	1	35	6 x 4.9	6	8	90	22	3	7	DIN374
1007550	MF10	0.75	39	7 x 5.5	7	10	90	20	3	9.3	DIN374
1010050	MF10	1	39	7 x 5.5	7	10	90	20	3	9	DIN374
1012550	MF10	1.25	39	7 x 5.5	7	10	100	24	3	8.8	DIN374
1210050	MF12	1	48	9 x 7	9	12	100	22	3	11	DIN374
1212550	MF12	1.25	48	9 x 7	9	12	100	22	3	10.8	DIN374
1215050	MF12	1.5	48	9 x 7	9	12	100	22	3	10.5	DIN374
1410050	MF14	1	48	11 x 9	11	14	100	22	3	13	DIN374
1412550	MF14	1.25	48	11 x 9	11	14	100	22	3	12.8	DIN374
1415050	MF14	1.5	48	11 x 9	11	14	100	22	3	12.5	DIN374
1610050	MF16	1	52	12 x 9	12	16	100	22	3	15	DIN374
1612550	MF16	1.25	52	12 x 9	12	16	100	22	3	14.8	DIN374
1615050	MF16	1.5	52	12 x 9	12	16	100	22	3	14.5	DIN374
1815050	MF18	1.5	55	14 x 11	14	18	110	25	4	16.5	DIN374
1820050	MF18	2	55	14 x 11	14	18	125	34	4	16	DIN374
2015050	MF20	1.5	58	16 x 12	16	20	125	25	4	18.5	DIN374
2020050	MF20	2	58	16 x 12	16	20	140	34	4	18	DIN374
2215050	MF22	1.5	63	18 x 14.5	18	22	125	25	4	20.5	DIN374
2415050	MF24	1.5	66	18 x 14.5	18	24	140	28	4	22.5	DIN374
2420050	MF24	2	66	18 x 14.5	18	24	140	28	4	22	DIN374

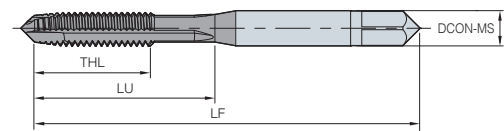
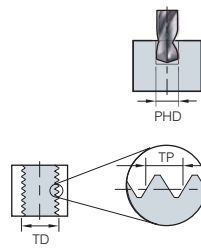
• Applicable workpiece range

◎ : Excellent ○ : Good

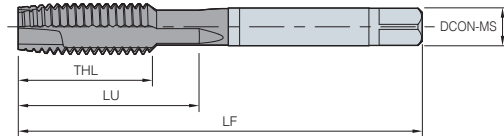
Division	Carbon steel			Alloy steel	Quenched and tempered steel			Stainless steel	Tool steel	Cast steel	Cast iron	Ductile cast iron	Copper	Brass	Brass cast	Bronze	Aluminum rolled material	Aluminum cast, alloyed	Magnesium cast, alloyed	Zinc cast, alloyed	Titanium alloy	Nickel alloy	Thermo setting plastic	Thermo plastic
DIN	~C25	C25 ~C45	C45~	CrMoS4	25~45 HrC	45~55 HrC	50~60 HrC	CrNi	X30W CrV9.3	GS	GG	GGG	Cu	17660	17660	CAC	AWxx	G-AISI, GD-AIMg	MC	-	Ti	Ni	Bakelite phenol epoxy	Nylon vinyl chloride
JIS	~S25C	S25C ~S45C	S45C~	SCM				SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	CAC	Axx	AC, ALDC	MC	ZDC	Ti	Ni		
	◎	◎	◎	◎	○					◎	○	○						◎						

SVDNM

Spiral point Tap



M10/MF10 or below



M12/MF12 or above

(mm)

Designation	TDZ	TP	LU	CZC-MS	DCON-MS	TD	LF	THL	NOF	PHD	BSG
SVDNM											
0204050	M2	0.4	12.5	2.8 x 2.1	2.8	2	45	8	3	1.6	DIN371
025045050	M2.5	0.45	15	2.8 x 2.1	2.8	2.5	50	9	3	2.1	DIN371
0305050	M3	0.5	18	3.5 x 2.7	3.5	3	56	11	3	2.5	DIN371
0407050	M4	0.7	21	4.5 x 3.4	4.5	4	63	13	3	3.3	DIN371
0508050	M5	0.8	25	6 x 4.9	6	5	70	16	3	4.2	DIN371
0610050	M6	1	30	6 x 4.9	6	6	80	19	3	5	DIN371
0812550	M8	1.25	35	8 x 6.2	8	8	90	22	3	6.8	DIN371
1015050	M10	1.5	39	10 x 8	10	10	100	24	3	8.5	DIN371
1217550	M12	1.75	40	9 x 7	9	12	110	29	3	10.2	DIN376
1420050	M14	2	45	11 x 9	11	14	110	30	3	12	DIN376
1620050	M16	2	52	12 x 9	12	16	110	32	3	14	DIN376
1825050	M18	2.5	55	14 x 11	14	18	125	34	4	15.5	DIN376
2025050	M20	2.5	58	16 x 12	16	20	140	34	4	17.5	DIN376
2225050	M22	2.5	63	18 x 14.5	18	22	140	34	4	19.5	DIN376
2430050	M24	3	66	18 x 14.5	18	24	160	38	4	21	DIN376
0405050	MF4	0.5	21	2.8 x 2.1	2.8	4	63	10	3	3.5	DIN374
0505050	MF5	0.5	25	3.5 x 2.7	3.5	5	70	12	3	4.5	DIN374
0607550	MF6	0.75	30	4.5 x 3.4	4.5	6	80	14	3	5.3	DIN374
0807550	MF8	0.75	30	6 x 4.9	6	8	80	19	3	7.3	DIN374
0810050	MF8	1	35	6 x 4.9	6	8	90	22	3	7	DIN374
1007550	MF10	0.75	39	7 x 5.5	7	10	90	20	3	9.3	DIN374
1010050	MF10	1	39	7 x 5.5	7	10	90	20	3	9	DIN374
1012550	MF10	1.25	39	7 x 5.5	7	10	100	24	3	8.8	DIN374
1210050	MF12	1	48	9 x 7	9	12	100	22	3	11	DIN374
1212550	MF12	1.25	48	9 x 7	9	12	100	22	3	10.8	DIN374
1215050	MF12	1.5	48	9 x 7	9	12	100	22	3	10.5	DIN374
1410050	MF14	1	48	11 x 9	11	14	100	22	3	13	DIN374
1415050	MF14	1.5	48	11 x 9	11	14	100	22	3	12.5	DIN374
1610050	MF16	1	52	12 x 9	12	16	100	22	3	15	DIN374
1615050	MF16	1.5	52	12 x 9	12	16	100	22	3	14.5	DIN374
1815050	MF18	1.5	55	14 x 11	14	18	110	25	4	16.5	DIN374
1820050	MF18	2	55	14 x 11	14	18	125	34	4	16	DIN374
2015050	MF20	1.5	58	16 x 12	16	20	125	25	4	18.5	DIN374
2215050	MF22	1.5	63	18 x 14.5	18	22	125	25	4	20.5	DIN374
2415050	MF24	1.5	66	18 x 14.5	18	24	140	28	4	22.5	DIN374
2420050	MF24	2	66	18 x 14.5	18	24	140	28	4	22	DIN374

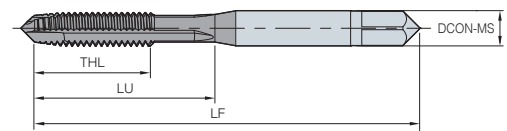
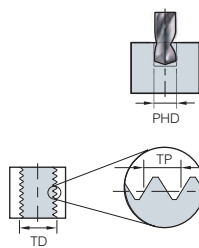
• Applicable workpiece range

◎ : Excellent ○ : Good

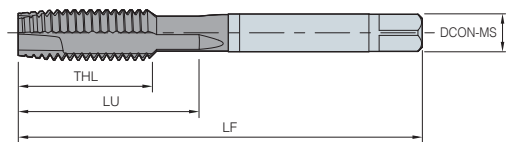
Division	Carbon steel			Alloy steel	Quenched and tempered steel			Stainless steel	Tool steel	Cast steel	Cast iron	Ductile cast iron	Copper	Brass	Brass cast	Bronze	Aluminum rolled material	Aluminum cast, alloyed	Magnesium cast, alloyed	Zinc cast, alloyed	Titanium alloy	Nickel alloy	Thermo setting plastic	Thermo plastic
DIN	~C25	C25~C45	C45~	CrMoS4	25~45 Hrc	45~55 Hrc	50~60 Hrc	CrNi	X30W CrV9.3	GS	GG	GGG	Cu	17660	17660	CAC	AWxx	G-AISI, GD-AIMg	MC	-	Ti	Ni	Bakelite phenol epoxy	Nylon vinyl chloride
JIS	~S25C	S25C~S45C	S45C~	SCM				SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	CAC	Axx	AC, ALDC	MC	ZDC	Ti	Ni		
	○	○	○	○	○			◎	○	○	○	◎						○			○	○	○	

SVDHM

Spiral point Tap



M10/MF10 or below



M12/MF12 or above

(mm)

Designation	TDZ	TP	LU	CZC-MS	DCON-MS	TD	LF	THL	NOF	PHD	BSG
SVDHM 0204050	M2	0.4	12.5	2.8 x 2.1	2.8	2	45	8	3	1.6	DIN371
025045050	M2.5	0.45	15	2.8 x 2.1	2.8	2.5	50	9	3	2.1	DIN371
0305050	M3	0.5	18	3.5 x 2.7	3.5	3	56	11	3	2.5	DIN371
0407050	M4	0.7	21	4.5 x 3.4	4.5	4	63	13	3	3.3	DIN371
0508050	M5	0.8	25	6 x 4.9	6	5	70	16	3	4.2	DIN371
0610050	M6	1	30	6 x 4.9	6	6	80	19	3	5	DIN371
0812550	M8	1.25	35	8 x 6.2	8	8	90	22	3	6.8	DIN371
1015050	M10	1.5	39	10 x 8	10	10	100	24	3	8.5	DIN371
1217550	M12	1.75	40	9 x 7	9	12	110	29	3	10.2	DIN376
1420050	M14	2	45	11 x 9	11	14	110	30	3	12	DIN376
1620050	M16	2	52	12 x 9	12	16	110	32	3	14	DIN376
1825050	M18	2.5	55	14 x 11	14	18	125	34	4	15.5	DIN376
2025050	M20	2.5	58	16 x 12	16	20	140	34	4	17.5	DIN376
2225050	M22	2.5	63	18 x 14.5	18	22	140	34	4	19.5	DIN376
2430050	M24	3	66	18 x 14.5	18	24	160	38	4	21	DIN376
0405050	MF4	0.5	21	2.8 x 2.1	2.8	4	63	10	3	3.5	DIN374
0505050	MF5	0.5	25	3.5 x 2.7	3.5	5	70	12	3	4.5	DIN374
0607550	MF6	0.75	30	4.5 x 3.4	4.5	6	80	14	3	5.3	DIN374
0807550	MF8	0.75	30	6 x 4.9	6	8	80	19	3	7.3	DIN374
0810050	MF8	1	35	6 x 4.9	6	8	90	22	3	7	DIN374
1007550	MF10	0.75	39	7 x 5.5	7	10	90	20	3	9.3	DIN374
1010050	MF10	1	39	7 x 5.5	7	10	90	20	3	9	DIN374
1012550	MF10	1.25	39	7 x 5.5	7	10	100	24	3	8.8	DIN374
1210050	MF12	1	48	9 x 7	9	12	100	22	3	11	DIN374
1212550	MF12	1.25	48	9 x 7	9	12	100	22	3	10.8	DIN374
1215050	MF12	1.5	48	9 x 7	9	12	100	22	3	10.5	DIN374
1410050	MF14	1	48	11 x 9	11	14	100	22	3	13	DIN374
1415050	MF14	1.5	48	11 x 9	11	14	100	22	3	12.5	DIN374
1610050	MF16	1	52	12 x 9	12	16	100	22	3	15	DIN374
1615050	MF16	1.5	52	12 x 9	12	16	100	22	3	14.5	DIN374
1815050	MF18	1.5	55	14 x 11	14	18	110	25	4	16.5	DIN374
1820050	MF18	2	55	14 x 11	14	18	125	34	4	16	DIN374
2015050	MF20	1.5	58	16 x 12	16	20	125	25	4	18.5	DIN374
2215050	MF22	1.5	63	18 x 14.5	18	22	125	25	4	20.5	DIN374
2415050	MF24	1.5	66	18 x 14.5	18	24	140	28	4	22.5	DIN374
2420050	MF24	2	66	18 x 14.5	18	24	140	28	4	22	DIN374

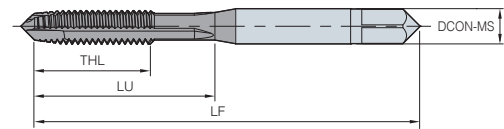
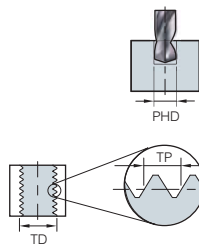
• Applicable workpiece range

◎ : Excellent ○ : Good

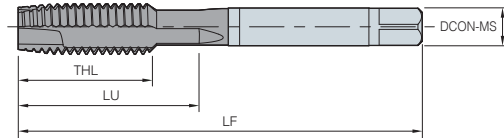
Division	Carbon steel			Alloy steel	Quenched and tempered steel			Stainless steel	Tool steel	Cast steel	Cast iron	Ductile cast iron	Copper	Brass	Brass cast	Bronze	Aluminum rolled material	Aluminum cast, alloyed	Magnesium cast, alloyed	Zinc cast, alloyed	Titanium alloy	Nickel alloy	Thermo setting plastic	Thermo plastic
DIN	~C25	C25~C45	C45~	CrMoS4	25~45 Hrc	45~55 Hrc	50~60 Hrc	CrNi	X30W CrV9.3	GS	GG	GGG	Cu	17660	17660	CAC	AWxx	G-AISI, GD-AIMg	MC	-	Ti	Ni	Bakelite phenol epoxy	Nylon vinyl chloride
JIS	~S25C	S25C~S45C	S45C~	SCM				SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	CAC	Axx	AC, ALDC	MC	ZDC	Ti	Ni		
	◎		◎	◎	○					◎	○	○						◎						

SVDOM

Spiral point Tap



M10/MF10 or below



M12/MF12 or above

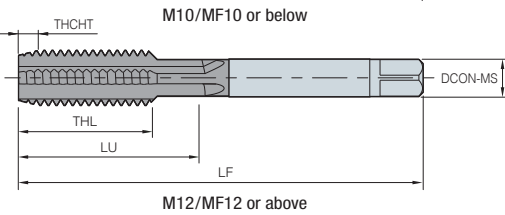
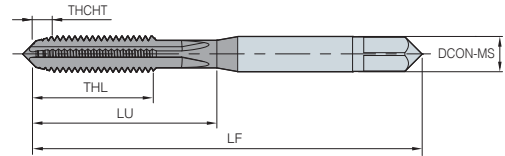
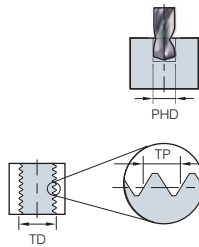
(mm)

Designation	TDZ	TP	LU	CZC-MS	DCON-MS	TD	LF	THL	NOF	PHD	BSG
SVDOM											
0204050	M2	0.4	12.5	2.8 x 2.1	2.8	2	45	8	2	1.6	DIN371
025045050	M2.5	0.45	15	2.8 x 2.1	2.8	2.5	50	9	2	2.1	DIN371
0305050	M3	0.5	18	3.5 x 2.7	3.5	3	56	11	2	2.5	DIN371
0407050	M4	0.7	21	4.5 x 3.4	4.5	4	63	13	2	3.3	DIN371
0508050	M5	0.8	25	6 x 4.9	6	5	70	16	2	4.2	DIN371
0610050	M6	1	30	6 x 4.9	6	6	80	19	2	5	DIN371
0812550	M8	1.25	35	8 x 6.2	8	8	90	22	2	6.8	DIN371
1015050	M10	1.5	39	10 x 8	10	10	100	24	2	8.5	DIN371
1217550	M12	1.75	40	9 x 7	9	12	110	29	3	10.2	DIN376
1420050	M14	2	45	11 x 9	11	14	110	30	3	12	DIN376
1620050	M16	2	52	12 x 9	12	16	110	32	3	14	DIN376
1825050	M18	2.5	55	14 x 11	14	18	125	34	3	15.5	DIN376
2025050	M20	2.5	58	16 x 12	16	20	140	34	4	17.5	DIN376
2225050	M22	2.5	63	18 x 14.5	18	22	140	34	4	19.5	DIN376
2430050	M24	3	66	18 x 14.5	18	24	160	38	4	21	DIN376
0405050	MF4	0.5	21	2.8 x 2.1	2.8	4	63	10	2	3.5	DIN374
0505050	MF5	0.5	25	3.5 x 2.7	3.5	5	70	12	2	4.5	DIN374
0607550	MF6	0.75	30	4.5 x 3.4	4.5	6	80	14	2	5.3	DIN374
0807550	MF8	0.75	30	6 x 4.9	6	8	80	19	2	7.3	DIN374
0810050	MF8	1	35	6 x 4.9	6	8	90	22	2	7	DIN374
1007550	MF10	0.75	39	7 x 5.5	7	10	90	20	2	9.3	DIN374
1010050	MF10	1	39	7 x 5.5	7	10	90	20	2	9	DIN374
1012550	MF10	1.25	39	7 x 5.5	7	10	100	24	2	8.8	DIN374
1210050	MF12	1	48	9 x 7	9	12	100	22	3	11	DIN374
1212550	MF12	1.25	48	9 x 7	9	12	100	22	3	10.8	DIN374
1215050	MF12	1.5	48	9 x 7	9	12	100	22	3	10.5	DIN374
1410050	MF14	1	48	11 x 9	11	14	100	22	3	13	DIN374
1415050	MF14	1.5	48	11 x 9	11	14	100	22	3	12.5	DIN374
1610050	MF16	1	52	12 x 9	12	16	100	22	3	15	DIN374
1615050	MF16	1.5	52	12 x 9	12	16	100	22	3	14.5	DIN374
1815050	MF18	1.5	55	14 x 11	14	18	110	25	3	16.5	DIN374
1820050	MF18	2	55	14 x 11	14	18	125	34	3	16	DIN374
2015050	MF20	1.5	58	16 x 12	16	20	125	25	4	18.5	DIN374
2215050	MF22	1.5	63	18 x 14.5	18	22	125	25	4	20.5	DIN374
2415050	MF24	1.5	66	18 x 14.5	18	24	140	28	4	22.5	DIN374
2420050	MF24	2	66	18 x 14.5	18	24	140	28	4	22	DIN374

• Applicable workpiece range

◎ : Excellent ○ : Good

Division	Carbon steel			Alloy steel	Quenched and tempered steel			Stainless steel	Tool steel	Cast steel	Cast iron	Ductile cast iron	Copper	Brass	Brass cast	Bronze	Aluminum rolled material	Aluminum cast, alloyed	Magnesium cast, alloyed	Zinc cast, alloyed	Titanium alloy	Nickel alloy	Thermo setting plastic	Thermo plastic
DIN	~C25	C25~C45	C45~	CrMoS4	25~45 Hrc	45~55 Hrc	50~60 Hrc	CrNi	X30W CrV9.3	GS	GG	GGG	Cu	17660	17660	CAC	AWxx	G-AISI, GD-AIMg	MC	-	Ti	Ni	Bakelite phenol epoxy	Nylon vinyl chloride
JIS	~S25C	S25C~S45C	S45C~	SCM				SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	CAC	Axx	AC, ALDC	MC	ZDC	Ti	Ni		
													◎	◎	◎	◎	◎	◎	○	○			◎	



(mm)

Designation	TDZ	TP	LU	CZC-MS	DCON-MS	TD	LF	THL	NOF	PHD	BSG	THCHT
SVGAM	0305015	M3	0.5	18	3.5 x 2.7	3.5	3	56	11	3	2.5	DIN371 E
	0407015	M4	0.7	21	4.5 x 3.4	4.5	4	63	13	3	3.3	DIN371 E
	0508015	M5	0.8	25	6 x 4.9	6	5	70	16	3	4.2	DIN371 E
	0610015	M6	1	30	6 x 4.9	6	6	80	19	4	5	DIN371 E
	0812515	M8	1.25	35	8 x 6.2	8	8	90	22	4	6.8	DIN371 E
	1015015	M10	1.5	39	10 x 8	10	10	100	24	4	8.5	DIN371 E
	1217515	M12	1.75	40	9 x 7	9	12	110	29	4	10.2	DIN376 E
	1420015	M14	2	45	11 x 9	11	14	110	30	4	12	DIN376 E
	1620015	M16	2	52	12 x 9	12	16	110	32	4	14	DIN376 E
	1825015	M18	2.5	55	14 x 11	14	18	125	34	4	15.5	DIN376 E
	2025015	M20	2.5	58	16 x 12	16	20	140	34	4	17.5	DIN376 E
	2225015	M22	2.5	63	18 x 14.5	18	22	140	34	4	19.5	DIN376 E
	2430015	M24	3	66	18 x 14.5	18	24	160	38	4	21	DIN376 E
	0810015	MF8	1	35	6 x 4.9	6	8	90	22	4	7	DIN374 E
	1010015	MF10	1	39	7 x 5.5	7	10	90	20	4	9	DIN374 E
	1012515	MF10	1.25	39	7 x 5.5	7	10	100	24	4	8.8	DIN374 E
	1210015	MF12	1	48	9 x 7	9	12	100	22	4	11	DIN374 E
	1212515	MF12	1.25	48	9 x 7	9	12	100	22	4	10.8	DIN374 E
	1215015	MF12	1.5	48	9 x 7	9	12	100	22	4	10.5	DIN374 E
	1415015	MF14	1.5	48	11 x 9	11	14	100	22	4	12.5	DIN374 E
	1615015	MF16	1.5	52	12 x 9	12	16	100	22	4	14.5	DIN374 E
	1815015	MF18	1.5	55	14 x 11	14	18	110	25	4	16.5	DIN374 E
	2015015	MF20	1.5	58	16 x 12	16	20	125	25	4	18.5	DIN374 E
	2215015	MF22	1.5	63	18 x 14.5	18	22	125	25	4	20.5	DIN374 E
	2415015	MF24	1.5	66	18 x 14.5	18	24	140	28	4	22.5	DIN374 E
	2420015	MF24	2	66	18 x 14.5	18	24	140	28	4	22	DIN374 E
	0305050	M3	0.5	18	3.5 x 2.7	3.5	3	56	11	3	2.5	DIN371 B
	0407050	M4	0.7	21	4.5 x 3.4	4.5	4	63	13	3	3.3	DIN371 B
	0508050	M5	0.8	25	6 x 4.9	6	5	70	16	3	4.2	DIN371 B
	0610050	M6	1	30	6 x 4.9	6	6	80	19	4	5	DIN371 B
	0812550	M8	1.25	35	8 x 6.2	8	8	90	22	4	6.8	DIN371 B
	1015050	M10	1.5	39	10 x 8	10	10	100	24	4	8.5	DIN371 B
	1217550	M12	1.75	40	9 x 7	9	12	110	29	4	10.2	DIN376 B
	1420050	M14	2	45	11 x 9	11	14	110	30	4	12	DIN376 B
	1620050	M16	2	52	12 x 9	12	16	110	32	4	14	DIN376 B
	1825050	M18	2.5	55	14 x 11	14	18	125	34	4	15.5	DIN376 B
	2025050	M20	2.5	58	16 x 12	16	20	140	34	4	17.5	DIN376 B
	2225050	M22	2.5	63	18 x 14.5	18	22	140	34	4	19.5	DIN376 B
	2430050	M24	3	66	18 x 14.5	18	24	160	38	4	21	DIN376 B
	0810050	MF8	1	35	6 x 4.9	6	8	90	22	4	7	DIN374 B
	1010050	MF10	1	39	7 x 5.5	7	10	90	20	4	9	DIN374 B
	1012550	MF10	1.25	39	7 x 5.5	7	10	100	24	4	8.8	DIN374 B
	1210050	MF12	1	48	9 x 7	9	12	100	22	4	11	DIN374 B
	1212550	MF12	1.25	48	9 x 7	9	12	100	22	4	10.8	DIN374 B
	1215050	MF12	1.5	48	9 x 7	9	12	100	22	4	10.5	DIN374 B
	1415050	MF14	1.5	48	11 x 9	11	14	100	22	4	12.5	DIN374 B
	1615050	MF16	1.5	52	12 x 9	12	16	100	22	4	14.5	DIN374 B
	1815050	MF18	1.5	55	14 x 11	14	18	110	25	4	16.5	DIN374 B
	2015050	MF20	1.5	58	16 x 12	16	20	125	25	4	18.5	DIN374 B
	2215050	MF22	1.5	63	18 x 14.5	18	22	125	25	4	20.5	DIN374 B
	2415050	MF24	1.5	66	18 x 14.5	18	24	140	28	4	22.5	DIN374 B
	2420050	MF24	2	66	18 x 14.5	18	24	140	28	4	22	DIN374 B

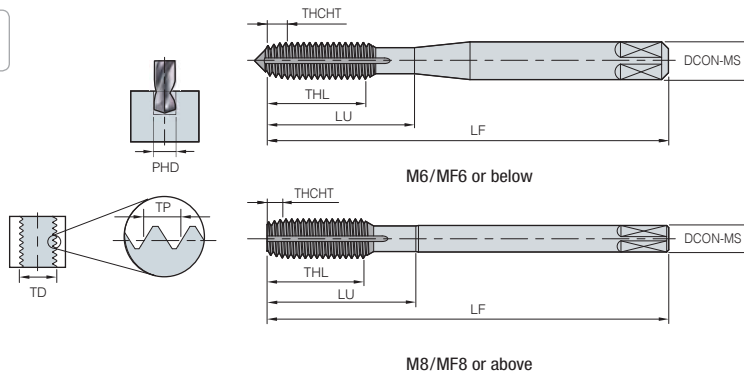
• Applicable workpiece range

◎ : Excellent ○ : Good

Division	Carbon steel			Alloy steel	Quenched and tempered steel			Stainless steel	Tool steel	Cast steel	Cast iron	Ductile cast iron	Copper	Brass	Brass cast	Bronze	Aluminum rolled material	Aluminum cast, alloyed	Magnesium cast, alloyed	Zinc cast, alloyed	Titanium alloy	Nickel alloy	Thermo setting plastic	Thermo plastic
DIN	~C25	C25~C45	C45~	CrMoS4	25~45 Hrc	45~55 Hrc	50~60 Hrc	CrNi	X30W CrV9.3	GS	GG	GGG	Cu	17660	17660	CAC	AWxx	G-AISI, GD-AIMg	MC	-	Ti	Ni	Bakelite phenol epoxy	Nylon vinyl chloride
JIS	~S25C	S25C~S45C	S45C~	SCM				SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	CAC	Axx	AC, ALDC	MC	ZDC	Ti	Ni		
						○					◎													

SVMOM

Roll Tap



(mm)

Designation		TDZ	TP	LU	CZC-MS	DCON-MS	TD	LF	THL	NOF	PHD		BSG	THCHT	Oil groove
SVMOM	0305020S	M3	0.5	18	3.5 x 2.7	3.5	3	56	11	4	2.76	2.81	DIN	C	S
	0305020M	M3	0.5	18	3.5 x 2.7	3.5	3	56	11	4	2.76	2.81	DIN	C	M
	0407020S	M4	0.7	21	4.5 x 3.4	4.5	4	63	13	4	3.65	3.7	DIN	C	S
	0407020M	M4	0.7	21	4.5 x 3.4	4.5	4	63	13	4	3.65	3.7	DIN	C	M
	0508020S	M5	0.8	25	6 x 4.9	6	5	70	15	4	4.59	4.66	DIN	C	S
	0508020M	M5	0.8	25	6 x 4.9	6	5	70	15	4	4.59	4.66	DIN	C	M
	0610020S	M6	1	30	6 x 4.9	6	6	80	17	4	5.48	5.57	DIN	C	S
	0610020M	M6	1	30	6 x 4.9	6	6	80	17	4	5.48	5.57	DIN	C	M
	0810020S	M8	1	34	8 x 6.2	8	8	90	17	4	7.48	7.57	DIN	C	S
	0810020M	M8	1	34	8 x 6.2	8	8	90	17	4	7.48	7.57	DIN	C	M
	0812520S	M8	1.25	40	8 x 6.2	8	8	90	20	4	7.34	7.41	DIN	C	S
	0812520M	M8	1.25	40	8 x 6.2	8	8	90	20	4	7.34	7.41	DIN	C	M
	1010020S	M10	1	39	10 x 8	10	10	90	18	4	9.48	9.57	DIN	C	S
	1010020M	M10	1	39	10 x 8	10	10	90	18	4	9.48	9.57	DIN	C	M
	1012520S	M10	1.25	44	10 x 8	10	10	100	22	4	9.34	9.41	DIN	C	S
	1012520M	M10	1.25	44	10 x 8	10	10	100	22	4	9.34	9.41	DIN	C	M
	1015020S	M10	1.5	44	10 x 8	10	10	100	22	4	9.18	9.28	DIN	C	S
	1015020M	M10	1.5	44	10 x 8	10	10	100	22	4	9.18	9.28	DIN	C	M
	1210020S	M12	1	36	9 x 7	9	12	100	18	4	11.48	11.57	DIN	C	S
	1210020M	M12	1	36	9 x 7	9	12	100	18	4	11.48	11.57	DIN	C	M
	1212520S	M12	1.25	44	9 x 7	9	12	100	22	4	11.34	11.41	DIN	C	S
	1212520M	M12	1.25	44	9 x 7	9	12	100	22	4	11.34	11.41	DIN	C	M
	1215020S	M12	1.5	44	9 x 7	9	12	100	22	4	11.18	11.28	DIN	C	S
	1215020M	M12	1.5	44	9 x 7	9	12	100	22	4	11.18	11.28	DIN	C	M
	1217520S	M12	1.75	48	9 x 7	9	12	110	24	4	11.05	11.15	DIN	C	S
	1217520M	M12	1.75	48	9 x 7	9	12	110	24	4	11.05	11.15	DIN	C	M
0305040M	M3	0.5	18	3.5 x 2.7	4	3.5	56	11	4	2.76	2.81	DIN	B	M	
0407040M	M4	0.7	21	4.5 x 3.4	5	4.5	63	13	4	3.65	3.7	DIN	B	M	
0508040M	M5	0.8	25	6 x 4.9	6	5	70	15	4	4.59	4.66	DIN	B	M	
0610040M	M6	1	30	6 x 4.9	6	6	80	17	4	5.48	5.57	DIN	B	M	
0810040M	M8	1	34	8 x 6.2	8	8	90	17	4	7.48	7.57	DIN	B	M	
0812540M	M8	1.25	40	8 x 6.2	8	8	90	20	4	7.34	7.41	DIN	B	M	
1010040M	M10	1	39	10 x 8	10	10	90	18	4	9.48	9.57	DIN	B	M	
1012540M	M10	1.25	44	10 x 8	10	10	100	22	4	9.34	9.41	DIN	B	M	
1015040M	M10	1.5	44	10 x 8	10	10	100	22	4	9.18	9.28	DIN	B	M	
1210040M	M12	1	36	9 x 7	9	12	100	18	4	11.48	11.57	DIN	B	M	
1212540M	M12	1.25	44	9 x 7	9	12	100	22	4	11.34	11.41	DIN	B	M	
1215040M	M12	1.5	44	9 x 7	9	12	100	22	4	11.18	11.28	DIN	B	M	
1217540M	M12	1.75	48	9 x 7	9	12	110	24	4	11.05	11.15	DIN	B	M	

Oil groove S: 1 oil groove

Oil groove M: 4 oil groove

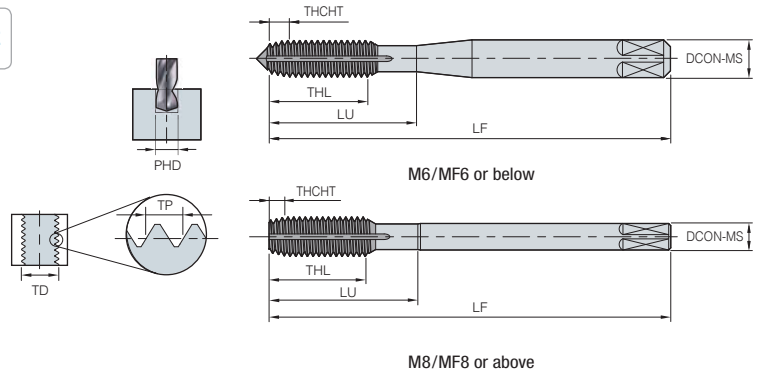
• Applicable workpiece range

◎ : Excellent ○ : Good

Division	Carbon steel			Alloy steel	Quenched and tempered steel			Stainless steel	Tool steel	Cast steel	Cast iron	Ductile cast iron	Copper	Brass	Brass cast	Bronze	Aluminum rolled material	Aluminum cast, alloyed	Magnesium cast, alloyed	Zinc cast, alloyed	Titanium alloy	Nickel alloy	Thermo setting plastic	Thermo plastic
DIN	~C25	C25~C45	C45~	CrMoS4	25~45 Hrc	45~55 Hrc	50~60 Hrc	CrNi	X30W CrV9.3	GS	GG	GGG	Cu	17660	17660	CAC	AWxx	G-AISI, GD-AIMg	MC	-	Ti	Ni	Bakelite phenol epoxy	Nylon vinyl chloride
JIS	~S25C	S25C~S45C	S45C~	SCM				SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	CAC	Axx	AC, ALDC	MC	ZDC	Ti	Ni		
	○	○						○					○	○	○	○	○	○		○				

SVMTM

Roll Tap



(mm)

Designation		TDZ	TP	LU	CZC-MS	DCON-MS	TD	LF	THL	NOF	PHD		BSG	THCHT	Oil groove
SVMTM	0305020S	M3	0.5	18	3.5 x 2.7	3.5	3	56	11	4	2.76	2.81	DIN	C	S
	0305020M	M3	0.5	18	3.5 x 2.7	3.5	3	56	11	4	2.76	2.81	DIN	C	M
	0407020S	M4	0.7	21	4.5 x 3.4	4.5	4	63	13	4	3.65	3.7	DIN	C	S
	0407020M	M4	0.7	21	4.5 x 3.4	4.5	4	63	13	4	3.65	3.7	DIN	C	M
	0508020S	M5	0.8	25	6 x 4.9	6	5	70	15	4	4.59	4.66	DIN	C	S
	0508020M	M5	0.8	25	6 x 4.9	6	5	70	15	4	4.59	4.66	DIN	C	M
	0610020S	M6	1	30	6 x 4.9	6	6	80	17	4	5.48	5.57	DIN	C	S
	0610020M	M6	1	30	6 x 4.9	6	6	80	17	4	5.48	5.57	DIN	C	M
	0810020S	M8	1	34	8 x 6.2	8	8	90	17	4	7.48	7.57	DIN	C	S
	0810020M	M8	1	34	8 x 6.2	8	8	90	17	4	7.48	7.57	DIN	C	M
	0812520S	M8	1.25	40	8 x 6.2	8	8	90	20	4	7.34	7.41	DIN	C	S
	0812520M	M8	1.25	40	8 x 6.2	8	8	90	20	4	7.34	7.41	DIN	C	M
	1010020S	M10	1	39	10 x 8	10	10	90	18	4	9.48	9.57	DIN	C	S
	1010020M	M10	1	39	10 x 8	10	10	90	18	4	9.48	9.57	DIN	C	M
	1012520S	M10	1.25	44	10 x 8	10	10	100	22	4	9.34	9.41	DIN	C	S
	1012520M	M10	1.25	44	10 x 8	10	10	100	22	4	9.34	9.41	DIN	C	M
	1015020S	M10	1.5	44	10 x 8	10	10	100	22	4	9.18	9.28	DIN	C	S
	1015020M	M10	1.5	44	10 x 8	10	10	100	22	4	9.18	9.28	DIN	C	M
	1210020S	M12	1	36	9 x 7	9	12	100	18	4	11.48	11.57	DIN	C	S
	1210020M	M12	1	36	9 x 7	9	12	100	18	4	11.48	11.57	DIN	C	M
	1212520S	M12	1.25	44	9 x 7	9	12	100	22	4	11.34	11.41	DIN	C	S
	1212520M	M12	1.25	44	9 x 7	9	12	100	22	4	11.34	11.41	DIN	C	M
	1215020S	M12	1.5	44	9 x 7	9	12	100	22	4	11.18	11.28	DIN	C	S
	1215020M	M12	1.5	44	9 x 7	9	12	100	22	4	11.18	11.28	DIN	C	M
	1217520S	M12	1.75	48	9 x 7	9	12	110	24	4	11.05	11.15	DIN	C	S
	1217520M	M12	1.75	48	9 x 7	9	12	110	24	4	11.05	11.15	DIN	C	M
	0305040M	M3	0.5	18	3.5 x 2.7	4	3.5	56	11	4	2.76	2.81	DIN	B	M
	0407040M	M4	0.7	21	4.5 x 3.4	5	4.5	63	13	4	3.65	3.7	DIN	B	M
	0508040M	M5	0.8	25	6 x 4.9	6	5	70	15	4	4.59	4.66	DIN	B	M
	0610040M	M6	1	30	6 x 4.9	6	6	80	17	4	5.48	5.57	DIN	B	M
	0810040M	M8	1	34	8 x 6.2	8	8	90	17	4	7.48	7.57	DIN	B	M
	0812540M	M8	1.25	40	8 x 6.2	8	8	90	20	4	7.34	7.41	DIN	B	M
	1010040M	M10	1	39	10 x 8	10	10	90	18	4	9.48	9.57	DIN	B	M
	1012540M	M10	1.25	44	10 x 8	10	10	100	22	4	9.34	9.41	DIN	B	M
	1015040M	M10	1.5	44	10 x 8	10	10	100	22	4	9.18	9.28	DIN	B	M
	1210040M	M12	1	36	9 x 7	9	12	100	18	4	11.48	11.57	DIN	B	M
	1212540M	M12	1.25	44	9 x 7	9	12	100	22	4	11.34	11.41	DIN	B	M
	1215040M	M12	1.5	44	9 x 7	9	12	100	22	4	11.18	11.28	DIN	B	M
	1217540M	M12	1.75	48	9 x 7	9	12	110	24	4	11.05	11.15	DIN	B	M

Oil groove S: 1 oil groove
Oil groove M: 4 oil groove

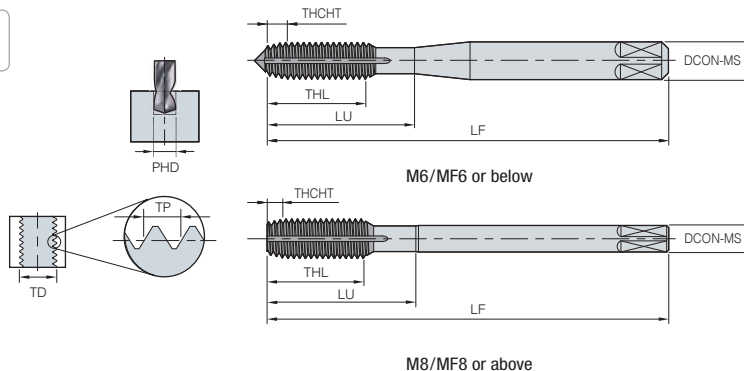
• Applicable workpiece range

◎ : Excellent ○ : Good

Division	Carbon steel			Alloy steel	Quenched and tempered steel			Stainless steel	Tool steel	Cast steel	Cast iron	Ductile cast iron	Copper	Brass	Brass cast	Bronze	Aluminum rolled material	Aluminum cast, alloyed	Magnesium cast, alloyed	Zinc cast, alloyed	Titanium alloy	Nickel alloy	Thermo setting plastic	Thermo plastic
DIN	~C25	C25~C45	C45~	CrMoS4	25~45 Hrc	45~55 Hrc	50~60 Hrc	CrNi	X30W CrV9.3	GS	GG	GGG	Cu	17660	17660	CAC	AWxx	G-AISI, GD-AIMg	MC	-	Ti	Ni	Bakelite phenol epoxy	Nylon vinyl chloride
JIS	~S25C	S25C~S45C	S45C~	SCM				SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	CAC	Axx	AC, ALDC	MC	ZDC	Ti	Ni		
	○	○						○					○	○	○	○	○	○		○				

SVMCM

Roll Tap



M8/MF8 or above

(mm)

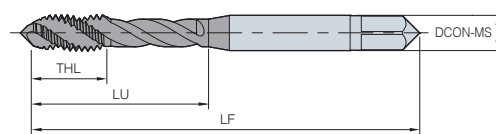
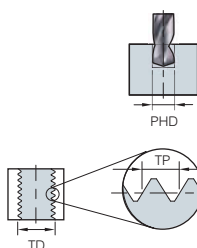
Designation		TDZ	TP	LU	CZC-MS	DCON-MS	TD	LF	THL	NOF	PHD		BSG	THCHT	Oil groove
SVMCM	0305020S	M3	0.5	18	3.5 x 2.7	3.5	3	56	11	4	2.76	2.81	DIN	C	S
	0305020M	M3	0.5	18	3.5 x 2.7	3.5	3	56	11	4	2.76	2.81	DIN	C	M
	0407020S	M4	0.7	21	4.5 x 3.4	4.5	4	63	13	4	3.65	3.7	DIN	C	S
	0407020M	M4	0.7	21	4.5 x 3.4	4.5	4	63	13	4	3.65	3.7	DIN	C	M
	0508020S	M5	0.8	25	6 x 4.9	6	5	70	15	4	4.59	4.66	DIN	C	S
	0508020M	M5	0.8	25	6 x 4.9	6	5	70	15	4	4.59	4.66	DIN	C	M
	0610020S	M6	1	30	6 x 4.9	6	6	80	17	4	5.48	5.57	DIN	C	S
	0610020M	M6	1	30	6 x 4.9	6	6	80	17	4	5.48	5.57	DIN	C	M
	0810020S	M8	1	34	8 x 6.2	8	8	90	17	4	7.48	7.57	DIN	C	S
	0810020M	M8	1	34	8 x 6.2	8	8	90	17	4	7.48	7.57	DIN	C	M
	0812520S	M8	1.25	40	8 x 6.2	8	8	90	20	4	7.34	7.41	DIN	C	S
	0812520M	M8	1.25	40	8 x 6.2	8	8	90	20	4	7.34	7.41	DIN	C	M
	1010020S	M10	1	39	10 x 8	10	10	90	18	4	9.48	9.57	DIN	C	S
	1010020M	M10	1	39	10 x 8	10	10	90	18	4	9.48	9.57	DIN	C	M
	1012520S	M10	1.25	44	10 x 8	10	10	100	22	4	9.34	9.41	DIN	C	S
	1012520M	M10	1.25	44	10 x 8	10	10	100	22	4	9.34	9.41	DIN	C	M
	1015020S	M10	1.5	44	10 x 8	10	10	100	22	4	9.18	9.28	DIN	C	S
	1015020M	M10	1.5	44	10 x 8	10	10	100	22	4	9.18	9.28	DIN	C	M
	1210020S	M12	1	36	9 x 7	9	12	100	18	4	11.48	11.57	DIN	C	S
	1210020M	M12	1	36	9 x 7	9	12	100	18	4	11.48	11.57	DIN	C	M
	1212520S	M12	1.25	44	9 x 7	9	12	100	22	4	11.34	11.41	DIN	C	S
	1212520M	M12	1.25	44	9 x 7	9	12	100	22	4	11.34	11.41	DIN	C	M
	1215020S	M12	1.5	44	9 x 7	9	12	100	22	4	11.18	11.28	DIN	C	S
	1215020M	M12	1.5	44	9 x 7	9	12	100	22	4	11.18	11.28	DIN	C	M
	1217520S	M12	1.75	48	9 x 7	9	12	110	24	4	11.05	11.15	DIN	C	S
	1217520M	M12	1.75	48	9 x 7	9	12	110	24	4	11.05	11.15	DIN	C	M
	0305040M	M3	0.5	18	3.5 x 2.7	3.5	3	56	11	4	2.76	2.81	DIN	B	M
	0407040M	M4	0.7	21	4.5 x 3.4	4.5	4	63	13	4	3.65	3.7	DIN	B	M
	0508040M	M5	0.8	25	6 x 4.9	6	5	70	15	4	4.59	4.66	DIN	B	M
	0610040M	M6	1	30	6 x 4.9	6	6	80	17	4	5.48	5.57	DIN	B	M
	0810040M	M8	1	34	8 x 6.2	8	8	90	17	4	7.48	7.57	DIN	B	M
	0812540M	M8	1.25	40	8 x 6.2	8	8	90	20	4	7.34	7.41	DIN	B	M
	1010040M	M10	1	39	10 x 8	10	10	90	18	4	9.48	9.57	DIN	B	M
	1012540M	M10	1.25	44	10 x 8	10	10	100	22	4	9.34	9.41	DIN	B	M
	1015040M	M10	1.5	44	10 x 8	10	10	100	22	4	9.18	9.28	DIN	B	M
	1210040M	M12	1	36	9 x 7	9	12	100	18	4	11.48	11.57	DIN	B	M
	1212540M	M12	1.25	44	9 x 7	9	12	100	22	4	11.34	11.41	DIN	B	M
	1215040M	M12	1.5	44	9 x 7	9	12	100	22	4	11.18	11.28	DIN	B	M
	1217540M	M12	1.75	48	9 x 7	9	12	110	24	4	11.05	11.15	DIN	B	M

Oil groove S: 1 oil groove
Oil groove M: 4 oil groove

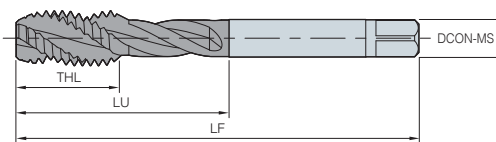
• Applicable workpiece range

© : Excellent ○ : Good

Division	Carbon steel			Alloy steel	Quenched and tempered steel			Stainless steel	Tool steel	Cast steel	Cast iron	Ductile cast iron	Copper	Brass	Brass cast	Bronze	Aluminum rolled material	Aluminum cast, alloyed	Magnesium cast, alloyed	Zinc cast, alloyed	Titanium alloy	Nickel alloy	Thermo setting plastic	Thermo plastic
DIN	~C25	C25~C45	C45~	CrMoS4	25~45 Hrc	45~55 Hrc	50~60 Hrc	CrNi	X30W CrV9.3	GS	GG	GGG	Cu	17660	17660	CAC	AWxx	G-AISI, GD-AIMg	MC	-	Ti	Ni	Bakelite phenol epoxy	Nylon vinyl chloride
JIS	~S25C	S25C~S45C	S45C~	SCM				SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	CAC	Axx	AC, ALDC	MC	ZDC	Ti	Ni		
	○	○						○					○	○	○	○	○	○		○				



M6/MF6 or below



M8/MF8 or above

(mm)

Designation	TDZ	TP	LU	CZC-MS	DCON-MS	TD	LF	THL	NOF	PHD	BSG	TCTR
SVPAM												
0204025	M2	0.4	13.5	3 x 2.5	3	2	40	8	3	1.6	JIS	H2
025045025	M2.5	0.45	14.5	3 x 2.5	3	2.5	44	9	3	2.1	JIS	H2
0305025	M3	0.5	17	4 x 3.2	4	3	46	6	3	2.5	JIS	H2
0407025	M4	0.7	20.5	5 x 4	5	4	52	7.5	3	3.3	JIS	H2
04507525	M4.5	0.75	20.5	5 x 4	5	4.5	55	7.5	3	3.8	JIS	H2
0508025	M5	0.8	25	5.5 x 4.5	5.5	5	60	9	3	4.2	JIS	H2
0610025	M6	1	29	6 x 4.5	6	6	62	11	3	5	JIS	H2
0812525	M8	1.25	34	6.2 x 5	6.2	8	70	13	3	6.8	JIS	H3
1015025	M10	1.5	38	7 x 5.5	7	10	75	16	3	8.5	JIS	H3
1217525	M12	1.75	48	8.5 x 6.5	8.5	12	82	18	3	10.2	JIS	H4
1420025	M14	2	48	10.5 x 8	10.5	14	88	20	3	12	JIS	H4
1620025	M16	2	52	12.5 x 10	12.5	16	95	20	4	14	JIS	H4
1825025	M18	2.5	55	14 x 11	14	18	100	22	4	15.5	JIS	H4
2025025	M20	2.5	58	15 x 12	15	20	105	25	4	17.5	JIS	H4
2225025	M22	2.5	63	17 x 13	17	22	115	25	4	19.5	JIS	H4
2430025	M24	3	66	19 x 15	19	24	120	29	4	21	JIS	H4
0405025	MF4	0.5	20.5	5 x 4	5	4	52	7.5	3	3.5	JIS	H2
0505025	MF5	0.5	25	5.5 x 4.5	5.5	5	60	8	3	4.5	JIS	H2
0607525	MF6	0.75	29	6 x 4.5	6	6	62	8	3	5.3	JIS	H2
0807525	MF8	0.75	34	6.2 x 5	6.2	8	70	10	3	7.3	JIS	H3
0810025	MF8	1	34	6.2 x 5	6.2	8	70	10	3	7	JIS	H3
1007525	MF10	0.75	38	7 x 5.5	7	10	75	14	3	9.3	JIS	H3
1010025	MF10	1	38	7 x 5.5	7	10	75	14	3	9	JIS	H3
1012525	MF10	1.25	38	7 x 5.5	7	10	75	14	3	8.8	JIS	H3
1210025	MF12	1	48	8.5 x 6.5	8.5	12	82	14	3	11	JIS	H3
1212525	MF12	1.25	48	8.5 x 6.5	8.5	12	82	14	3	10.8	JIS	H3
1215025	MF12	1.5	48	8.5 x 6.5	8.5	12	82	14	3	10.5	JIS	H3
1410025	MF14	1	48	10.5 x 8	10.5	14	88	18	3	13	JIS	H3
1415025	MF14	1.5	48	10.5 x 8	10.5	14	88	18	3	12.5	JIS	H3
1615025	MF16	1.5	52	12.5 x 10	12.5	16	95	18	4	14.5	JIS	H3
1815025	MF18	1.5	55	14 x 11	14	18	100	18	4	16.5	JIS	H4
2015025	MF20	1.5	58	15 x 12	15	20	105	25	4	18.5	JIS	H4
2215025	MF22	1.5	63	17 x 13	17	22	115	25	4	20.5	JIS	H4
2415025	MF24	1.5	66	19 x 15	19	24	120	25	4	22.5	JIS	H4
2420025	MF24	2	66	19 x 15	19	24	120	25	4	22	JIS	H4

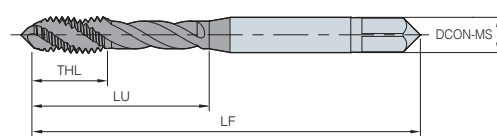
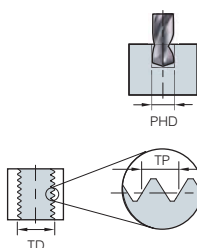
• Applicable workpiece range

◎ : Excellent ○ : Good

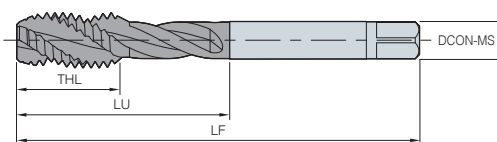
Division	Carbon steel			Alloy steel	Quenched and tempered steel			Stainless steel	Tool steel	Cast steel	Cast iron	Ductile cast iron	Copper	Brass	Brass cast	Bronze	Aluminum rolled material	Aluminum cast, alloyed	Magnesium cast, alloyed	Zinc cast, alloyed	Titanium alloy	Nickel alloy	Thermo setting plastic	Thermo plastic
DIN	~C25	C25~C45	C45~	CrMoS4	25~45 Hrc	45~55 Hrc	50~60 Hrc	CrNi	X30W CrV9.3	GS	GG	GGG	Cu	17660	17660	CAC	AWxx	G-AISI, GD-AIMg	MC	-	Ti	Ni	Bakelite phenol epoxy	Nylon vinyl chloride
JIS	~S25C	S25C~S45C	S45C~	SCM				SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	CAC	Axx	AC, ALDC	MC	ZDC	Ti	Ni		
	◎	◎	◎	◎	○					◎	○	○						◎						

SVPNM

Spiral flute Tap



M6/MF6 or below



M8/MF8 or above

(mm)

Designation	TDZ	TP	LU	CZC-MS	DCON-MS	TD	LF	THL	NOF	PHD	BSG	TCTR
SVPNM 0204025	M2	0.4	13.5	3 x 2.5	3	2	40	8	3	1.6	JIS	H2
025045025	M2.5	0.45	14.5	3 x 2.5	3	2.5	44	9	3	2.1	JIS	H2
0305025	M3	0.5	17	4 x 3.2	4	3	46	6	3	2.5	JIS	H2
0407025	M4	0.7	20.5	5 x 4	5	4	52	7.5	3	3.3	JIS	H2
04507525	M4.5	0.75	20.5	5 x 4	5	4.5	55	7.5	3	3.8	JIS	H2
0508025	M5	0.8	25	5.5 x 4.5	5.5	5	60	9	3	4.2	JIS	H2
0610025	M6	1	29	6 x 4.5	6	6	62	11	3	5	JIS	H2
0812525	M8	1.25	34	6.2 x 5	6.2	8	70	13	3	6.8	JIS	H3
1015025	M10	1.5	38	7 x 5.5	7	10	75	16	3	8.5	JIS	H3
1217525	M12	1.75	48	8.5 x 6.5	8.5	12	82	18	3	10.2	JIS	H4
1420025	M14	2	48	10.5 x 8	10.5	14	88	20	3	12	JIS	H4
1620025	M16	2	52	12.5 x 10	12.5	16	95	20	4	14	JIS	H4
1825025	M18	2.5	55	14 x 11	14	18	100	22	4	15.5	JIS	H4
2025025	M20	2.5	58	15 x 12	15	20	105	25	4	17.5	JIS	H4
2225025	M22	2.5	63	17 x 13	17	22	115	25	4	19.5	JIS	H4
2430025	M24	3	66	19 x 15	19	24	120	29	4	21	JIS	H4
0405025	MF4	0.5	20.5	5 x 4	5	4	52	7.5	3	3.5	JIS	H2
0505025	MF5	0.5	25	5.5 x 4.5	5.5	5	60	8	3	4.5	JIS	H2
0607525	MF6	0.75	29	6 x 4.5	6	6	62	8	3	5.3	JIS	H2
0807525	MF8	0.75	34	6.2 x 5	6.2	8	70	10	3	7.3	JIS	H3
0810025	MF8	1	34	6.2 x 5	6.2	8	70	10	3	7	JIS	H3
1007525	MF10	0.75	38	7 x 5.5	7	10	75	14	3	9.3	JIS	H3
1010025	MF10	1	38	7 x 5.5	7	10	75	14	3	9	JIS	H3
1012525	MF10	1.25	38	7 x 5.5	7	10	75	14	3	8.8	JIS	H3
1210025	MF12	1	48	8.5 x 6.5	8.5	12	82	14	3	11	JIS	H3
1212525	MF12	1.25	48	8.5 x 6.5	8.5	12	82	14	3	10.8	JIS	H3
1215025	MF12	1.5	48	8.5 x 6.5	8.5	12	82	14	3	10.5	JIS	H3
1410025	MF14	1	48	10.5 x 8	10.5	14	88	18	3	13	JIS	H3
1415025	MF14	1.5	48	10.5 x 8	10.5	14	88	18	3	12.5	JIS	H3
1615025	MF16	1.5	52	12.5 x 10	12.5	16	95	18	4	14.5	JIS	H3
1815025	MF18	1.5	55	14 x 11	14	18	100	18	4	16.5	JIS	H4
2015025	MF20	1.5	58	15 x 12	15	20	105	25	4	18.5	JIS	H4
2215025	MF22	1.5	63	17 x 13	17	22	115	25	4	20.5	JIS	H4
2415025	MF24	1.5	66	19 x 15	19	24	120	25	4	22.5	JIS	H4
2420025	MF24	2	66	19 x 15	19	24	120	25	4	22	JIS	H4

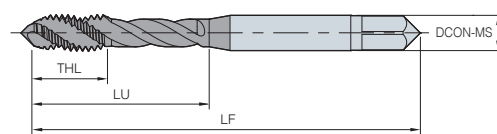
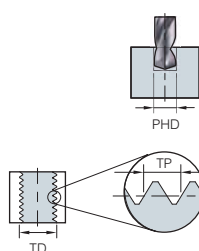
• Applicable workpiece range

◎ : Excellent ○ : Good

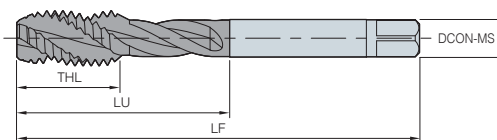
Division	Carbon steel			Alloy steel	Quenched and tempered steel			Stainless steel	Tool steel	Cast steel	Cast iron	Ductile cast iron	Copper	Brass	Brass cast	Bronze	Aluminum rolled material	Aluminum cast, alloyed	Magnesium cast, alloyed	Zinc cast, alloyed	Titanium alloy	Nickel alloy	Thermo setting plastic	Thermo plastic
DIN	~C25	C25~C45	C45~	CrMoS4	25~45 Hrc	45~55 Hrc	50~60 Hrc	CrNi	X30W CrV9.3	GS	GG	GGG	Cu	17660	17660	CAC	AWxx	G-AISI, GD-AlMg	MC	-	Ti	Ni	Bakelite phenol epoxy	Nylon vinyl chloride
JIS	~S25C	S25C~S45C	S45C~	SCM				SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	CAC	Axx	AC, ALDC	MC	ZDC	Ti	Ni		
	○	○	○	○	○			◎	○	○	○	◎						○			○	○	○	

SVPHM

Spiral flute Tap



M6/MF6 or below



M8/MF8 or above

(mm)

Designation	TDZ	TP	LU	CZC-MS	DCON-MS	TD	LF	THL	NOF	PHD	BSG	TCTR
SVPHM												
0204025	M2	0.4	13.5	3 x 2.5	3	2	40	8	3	1.6	JIS	H2
025045025	M2.5	0.45	14.5	3 x 2.5	3	2.5	44	9	3	2.1	JIS	H2
0305025	M3	0.5	17	4 x 3.2	4	3	46	6	3	2.5	JIS	H2
0407025	M4	0.7	20.5	5 x 4	5	4	52	7.5	3	3.3	JIS	H2
04507525	M4.5	0.75	20.5	5 x 4	5	4.5	55	7.5	3	3.8	JIS	H2
0508025	M5	0.8	25	5.5 x 4.5	5.5	5	60	9	3	4.2	JIS	H2
0610025	M6	1	29	6 x 4.5	6	6	62	11	3	5	JIS	H2
0812525	M8	1.25	34	6.2 x 5	6.2	8	70	13	3	6.8	JIS	H3
1015025	M10	1.5	38	7 x 5.5	7	10	75	16	3	8.5	JIS	H3
1217525	M12	1.75	48	8.5 x 6.5	8.5	12	82	18	3	10.2	JIS	H4
1420025	M14	2	48	10.5 x 8	10.5	14	88	20	3	12	JIS	H4
1620025	M16	2	52	12.5 x 10	12.5	16	95	20	4	14	JIS	H4
1825025	M18	2.5	55	14 x 11	14	18	100	22	4	15.5	JIS	H4
2025025	M20	2.5	58	15 x 12	15	20	105	25	4	17.5	JIS	H4
2225025	M22	2.5	63	17 x 13	17	22	115	25	4	19.5	JIS	H4
2430025	M24	3	66	19 x 15	19	24	120	29	4	21	JIS	H4
0405025	MF4	0.5	20.5	5 x 4	5	4	52	7.5	3	3.5	JIS	H2
0505025	MF5	0.5	25	5.5 x 4.5	5.5	5	60	8	3	4.5	JIS	H2
0607525	MF6	0.75	29	6 x 4.5	6	6	62	8	3	5.3	JIS	H2
0807525	MF8	0.75	34	6.2 x 5	6.2	8	70	10	3	7.3	JIS	H3
0810025	MF8	1	34	6.2 x 5	6.2	8	70	10	3	7	JIS	H3
1007525	MF10	0.75	38	7 x 5.5	7	10	75	14	3	9.3	JIS	H3
1010025	MF10	1	38	7 x 5.5	7	10	75	14	3	9	JIS	H3
1012525	MF10	1.25	38	7 x 5.5	7	10	75	14	3	8.8	JIS	H3
1210025	MF12	1	48	8.5 x 6.5	8.5	12	82	14	3	11	JIS	H3
1212525	MF12	1.25	48	8.5 x 6.5	8.5	12	82	14	3	10.8	JIS	H3
1215025	MF12	1.5	48	8.5 x 6.5	8.5	12	82	14	3	10.5	JIS	H3
1410025	MF14	1	48	10.5 x 8	10.5	14	88	18	3	13	JIS	H3
1415025	MF14	1.5	48	10.5 x 8	10.5	14	88	18	3	12.5	JIS	H3
1615025	MF16	1.5	52	12.5 x 10	12.5	16	95	18	4	14.5	JIS	H3
1815025	MF18	1.5	55	14 x 11	14	18	100	18	4	16.5	JIS	H4
2015025	MF20	1.5	58	15 x 12	15	20	105	25	4	18.5	JIS	H4
2215025	MF22	1.5	63	17 x 13	17	22	115	25	4	20.5	JIS	H4
2415025	MF24	1.5	66	19 x 15	19	24	120	25	4	22.5	JIS	H4
2420025	MF24	2	66	19 x 15	19	24	120	25	4	22	JIS	H4

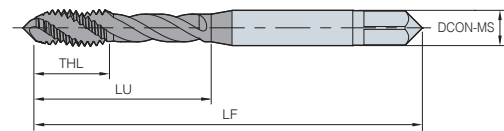
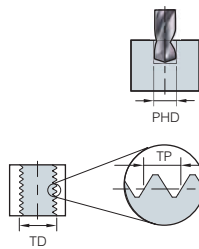
• Applicable workpiece range

◎ : Excellent ○ : Good

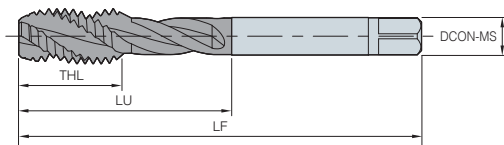
Division	Carbon steel			Alloy steel	Quenched and tempered steel			Stainless steel	Tool steel	Cast steel	Cast iron	Ductile cast iron	Copper	Brass	Brass cast	Bronze	Aluminum rolled material	Aluminum cast, alloyed	Magnesium cast, alloyed	Zinc cast, alloyed	Titanium alloy	Nickel alloy	Thermo setting plastic	Thermo plastic
DIN	~C25	C25~C45	C45~	CrMoS4	25~45 Hrc	45~55 Hrc	50~60 Hrc	CrNi	X30W CrV9.3	GS	GG	GGG	Cu	17660	17660	CAC	AWxx	G-AISI, GD-AIMg	MC	-	Ti	Ni	Bakelite phenol epoxy	Nylon vinyl chloride
JIS	~S25C	S25C~S45C	S45C~	SCM				SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	CAC	Axx	AC, ALDC	MC	ZDC	Ti	Ni		
	◎	◎	◎	◎	○					◎	○	○						◎						

SVPOM

Spiral flute Tap



M6/MF6 or below



M8/MF8 or above

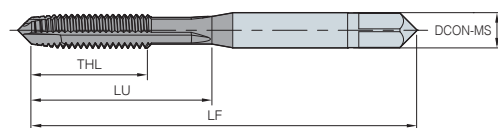
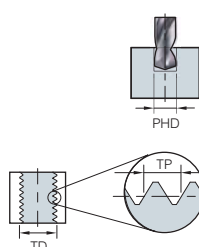
(mm)

Designation	TDZ	TP	LU	CZC-MS	DCON-MS	TD	LF	THL	NOF	PHD	BSG	TCTR
SVPOM												
0204025	M2	0.4	13.5	3 x 2.5	3	2	40	8	2	1.6	JIS	H2
025045025	M2.5	0.45	14.5	3 x 2.5	3	2.5	44	9	2	2.1	JIS	H2
0305025	M3	0.5	17	4 x 3.2	4	3	46	6	2	2.5	JIS	H2
0407025	M4	0.7	20.5	5 x 4	5	4	52	7.5	2	3.3	JIS	H2
04507525	M4.5	0.75	20.5	5 x 4	5	4.5	55	7.5	2	3.8	JIS	H2
0508025	M5	0.8	25	5.5 x 4.5	5.5	5	60	9	2	4.2	JIS	H2
0610025	M6	1	29	6 x 4.5	6	6	62	11	2	5	JIS	H2
0812525	M8	1.25	34	6.2 x 5	6.2	8	70	13	2	6.8	JIS	H3
1015025	M10	1.5	38	7 x 5.5	7	10	75	16	2	8.5	JIS	H3
1217525	M12	1.75	48	8.5 x 6.5	8.5	12	82	18	3	10.2	JIS	H4
1420025	M14	2	48	10.5 x 8	10.5	14	88	20	3	12	JIS	H4
1620025	M16	2	52	12.5 x 10	12.5	16	95	20	3	14	JIS	H4
1825025	M18	2.5	55	14 x 11	14	18	100	22	4	15.5	JIS	H4
2025025	M20	2.5	58	15 x 12	15	20	105	25	4	17.5	JIS	H4
2225025	M22	2.5	63	17 x 13	17	22	115	25	4	19.5	JIS	H4
2430025	M24	3	66	19 x 15	19	24	120	29	4	21	JIS	H4
0405025	MF4	0.5	20.5	5 x 4	5	4	52	7.5	2	3.5	JIS	H2
0505025	MF5	0.5	25	5.5 x 4.5	5.5	5	60	8	2	4.5	JIS	H2
0607525	MF6	0.75	29	6 x 4.5	6	6	62	8	2	5.3	JIS	H2
0807525	MF8	0.75	34	6.2 x 5	6.2	8	70	10	2	7.3	JIS	H3
0810025	MF8	1	34	6.2 x 5	6.2	8	70	10	2	7	JIS	H3
1007525	MF10	0.75	38	7 x 5.5	7	10	75	14	2	9.3	JIS	H3
1010025	MF10	1	38	7 x 5.5	7	10	75	14	2	9	JIS	H3
1012525	MF10	1.25	38	7 x 5.5	7	10	75	14	2	8.8	JIS	H3
1210025	MF12	1	48	8.5 x 6.5	8.5	12	82	14	3	11	JIS	H3
1212525	MF12	1.25	48	8.5 x 6.5	8.5	12	82	14	3	10.8	JIS	H3
1215025	MF12	1.5	48	8.5 x 6.5	8.5	12	82	14	3	10.5	JIS	H3
1410025	MF14	1	48	10.5 x 8	10.5	14	88	18	3	13	JIS	H3
1415025	MF14	1.5	48	10.5 x 8	10.5	14	88	18	3	12.5	JIS	H3
1615025	MF16	1.5	52	12.5 x 10	12.5	16	95	18	3	14.5	JIS	H3
1815025	MF18	1.5	55	14 x 11	14	18	100	18	4	16.5	JIS	H4
2015025	MF20	1.5	58	15 x 12	15	20	105	25	4	18.5	JIS	H4
2215025	MF22	1.5	63	17 x 13	17	22	115	25	4	20.5	JIS	H4
2415025	MF24	1.5	66	19 x 15	19	24	120	25	4	22.5	JIS	H4
2420025	MF24	2	66	19 x 15	19	24	120	25	4	22	JIS	H4

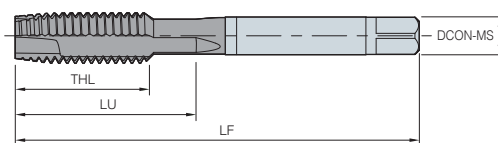
• Applicable workpiece range

◎ : Excellent ○ : Good

Division	Carbon steel			Alloy steel	Quenched and tempered steel			Stainless steel	Tool steel	Cast steel	Cast iron	Ductile cast iron	Copper	Brass	Brass cast	Bronze	Aluminum rolled material	Aluminum cast, alloyed	Magnesium cast, alloyed	Zinc cast, alloyed	Titanium alloy	Nickel alloy	Thermo setting plastic	Thermo plastic
DIN	~C25	C25~C45	C45~	CrMoS4	25~45 Hrc	45~55 Hrc	50~60 Hrc	CrNi	X30W CrV9.3	GS	GG	GGG	Cu	17660	17660	CAC	AWxx	G-AISI, GD-AIMg	MC	-	Ti	Ni	Bakelite phenol epoxy	Nylon vinyl chloride
JIS	~S25C	S25C~S45C	S45C~	SCM				SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	CAC	Axx	AC, ALDC	MC	ZDC	Ti	Ni		
													◎	◎	◎	◎	◎	◎	○	○			◎	



M8/MF8 or below



M10/MF10 or above

(mm)

Designation	TDZ	TP	LU	CZC-MS	DCON-MS	TD	LF	THL	NOF	PHD	BSG	TCTR
SVNAM												
0204050	M2	0.4	12.5	3 x 2.5	3	2	40	8	3	1.6	JIS	H2
025045050	M2.5	0.45	14.5	3 x 2.5	3	2.5	44	9	3	2.1	JIS	H2
0305050	M3	0.5	18	4 x 3.2	4	3	46	11	3	2.5	JIS	H2
0407050	M4	0.7	21	5 x 4	5	4	52	13	3	3.3	JIS	H2
04507550	M4.5	0.75	21	5 x 4	5	4.5	55	13	3	3.8	JIS	H2
0508050	M5	0.8	25	5.5 x 4.5	5.5	5	60	16	3	4.2	JIS	H2
0610050	M6	1	30	6 x 4.5	6	6	62	19	3	5	JIS	H2
0812550	M8	1.25	35	6.2 x 5	6.2	8	70	22	3	6.8	JIS	H3
1015050	M10	1.5	39	7 x 5.5	7	10	75	24	3	8.5	JIS	H3
1217550	M12	1.75	48	8.5 x 6.5	8.5	12	82	29	3	10.2	JIS	H4
1420050	M14	2	48	10.5 x 8	10.5	14	88	30	3	12	JIS	H4
1620050	M16	2	52	12.5 x 10	12.5	16	95	32	3	14	JIS	H4
1825050	M18	2.5	55	14 x 11	14	18	100	34	3	15.5	JIS	H4
2025050	M20	2.5	58	15 x 12	15	20	105	34	4	17.5	JIS	H4
2225050	M22	2.5	63	17 x 13	17	22	115	34	4	19.5	JIS	H4
2430050	M24	3	66	19 x 15	19	24	120	38	4	21	JIS	H4
0405050	MF4	0.5	21	5 x 4	5	4	52	10	3	3.5	JIS	H2
0505050	MF5	0.5	25	5.5 x 4.5	5.5	5	60	12	3	4.5	JIS	H2
0607550	MF6	0.75	30	6 x 4.5	6	6	62	14	3	5.3	JIS	H2
0807550	MF8	0.75	35	6.2 x 5	6.2	8	70	19	3	7.3	JIS	H3
0810050	MF8	1	35	6.2 x 5	6.2	8	70	19	3	7	JIS	H3
1007550	MF10	0.75	39	7 x 5.5	7	10	75	20	3	9.3	JIS	H3
1010050	MF10	1	39	7 x 5.5	7	10	75	20	3	9	JIS	H3
1012550	MF10	1.25	39	7 x 5.5	7	10	75	20	3	8.8	JIS	H3
1210050	MF12	1	48	8.5 x 6.5	8.5	12	82	22	3	11	JIS	H3
1212550	MF12	1.25	48	8.5 x 6.5	8.5	12	82	22	3	10.8	JIS	H3
1215050	MF12	1.5	48	8.5 x 6.5	8.5	12	82	22	3	10.5	JIS	H3
1410050	MF14	1	48	10.5 x 8	10.5	14	88	22	3	13	JIS	H3
1415050	MF14	1.5	48	10.5 x 8	10.5	14	88	22	3	12.5	JIS	H3
1615050	MF16	1.5	52	12.5 x 10	12.5	16	95	22	3	14.5	JIS	H3
1815050	MF18	1.5	55	14 x 11	14	18	100	25	4	16.5	JIS	H4
2015050	MF20	1.5	58	15 x 12	15	20	105	25	4	18.5	JIS	H4
2215050	MF22	1.5	63	17 x 13	17	22	115	25	4	20.5	JIS	H4
2415050	MF24	1.5	66	19 x 15	19	24	120	28	4	22.5	JIS	H4
2420050	MF24	2	66	19 x 15	19	24	120	28	4	22	JIS	H4

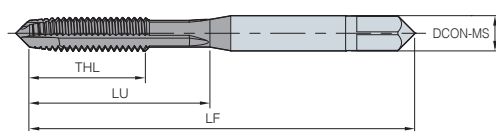
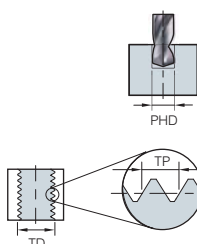
• Applicable workpiece range

◎ : Excellent ○ : Good

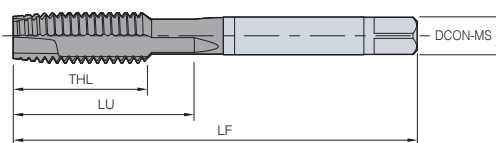
Division	Carbon steel			Alloy steel	Quenched and tempered steel			Stainless steel	Tool steel	Cast steel	Cast iron	Ductile cast iron	Copper	Brass	Brass cast	Bronze	Aluminum rolled material	Aluminum cast, alloyed	Magnesium cast, alloyed	Zinc cast, alloyed	Titanium alloy	Nickel alloy	Thermo setting plastic	Thermo plastic
DIN	~C25	C25~C45	C45~	CrMoS4	25~45 Hrc	45~55 Hrc	50~60 Hrc	CrNi	X30W CrV9.3	GS	GG	GGG	Cu	17660	17660	CAC	AWxx	G-AISI, GD-AIMg	MC	-	Ti	Ni	Bakelite phenol epoxy	Nylon vinyl chloride
JIS	~S25C	S25C~S45C	S45C~	SCM				SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	CAC	Axx	AC, ALDC	MC	ZDC	Ti	Ni		
	◎	◎	◎	◎	○					◎	○	○						◎						

SVNNM

Spiral point Tap



M8/MF8 or below



M10/MF10 or above

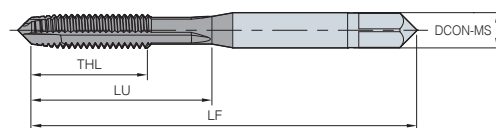
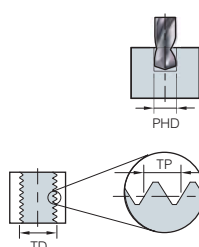
(mm)

Designation	TDZ	TP	LU	CZC-MS	DCON-MS	TD	LF	THL	NOF	PHD	BSG	TCTR
SVNNM 0204050	M2	0.4	14	3 x 2.5	3	2	40	8	3	1.6	JIS	H2
025045050	M2.5	0.45	15	3 x 2.5	3	2.5	44	9	3	2.1	JIS	H2
0305050	M3	0.5	18	4 x 3.2	4	3	46	11	3	2.5	JIS	H2
0407050	M4	0.7	21	5 x 4	5	4	52	13	3	3.3	JIS	H2
04507550	M4.5	0.75	21	5 x 4	5	4.5	55	13	3	3.8	JIS	H2
0508050	M5	0.8	25	5.5 x 4.5	5.5	5	60	16	3	4.2	JIS	H2
0610050	M6	1	30	6 x 4.5	6	6	62	19	3	5	JIS	H2
0812550	M8	1.25	35	6.2 x 5	6.2	8	70	22	3	6.8	JIS	H3
1015050	M10	1.5	39	7 x 5.5	7	10	75	24	3	8.5	JIS	H3
1217550	M12	1.75	48	8.5 x 6.5	8.5	12	82	29	3	10.2	JIS	H4
1420050	M14	2	48	10.5 x 8	10.5	14	88	30	3	12	JIS	H4
1620050	M16	2	52	12.5 x 10	12.5	16	95	32	3	14	JIS	H4
1825050	M18	2.5	55	14 x 11	14	18	100	34	4	15.5	JIS	H4
2025050	M20	2.5	58	15 x 12	15	20	105	34	4	17.5	JIS	H4
2225050	M22	2.5	63	17 x 13	17	22	115	34	4	19.5	JIS	H4
2430050	M24	3	66	19 x 15	19	24	120	38	4	21	JIS	H4
0405050	MF4	0.5	21	5 x 4	5	4	52	10	3	3.5	JIS	H2
0505050	MF5	0.5	25	5.5 x 4.5	5.5	5	60	12	3	4.5	JIS	H2
0607550	MF6	0.75	30	6 x 4.5	6	6	62	14	3	5.3	JIS	H2
0807550	MF8	0.75	35	6.2 x 5	6.2	8	70	19	3	7.3	JIS	H3
0810050	MF8	1	35	6.2 x 5	6.2	8	70	19	3	7	JIS	H3
1007550	MF10	0.75	39	7 x 5.5	7	10	75	20	3	9.3	JIS	H3
1010050	MF10	1	39	7 x 5.5	7	10	75	20	3	9	JIS	H3
1012550	MF10	1.25	39	7 x 5.5	7	10	75	20	3	8.8	JIS	H3
1210050	MF12	1	48	8.5 x 6.5	8.5	12	82	22	3	11	JIS	H3
1212550	MF12	1.25	48	8.5 x 6.5	8.5	12	82	22	3	10.8	JIS	H3
1215050	MF12	1.5	48	8.5 x 6.5	8.5	12	82	22	3	10.5	JIS	H3
1410050	MF14	1	48	10.5 x 8	10.5	14	88	22	3	13	JIS	H3
1415050	MF14	1.5	48	10.5 x 8	10.5	14	88	22	3	12.5	JIS	H3
1615050	MF16	1.5	52	12.5 x 10	12.5	16	95	22	3	14.5	JIS	H3
1815050	MF18	1.5	55	14 x 11	14	18	100	25	4	16.5	JIS	H4
2015050	MF20	1.5	58	15 x 12	15	20	105	25	4	18.5	JIS	H4
2215050	MF22	1.5	63	17 x 13	17	22	115	25	4	20.5	JIS	H4
2415050	MF24	1.5	66	19 x 15	19	24	120	28	4	22.5	JIS	H4
2420050	MF24	2	66	19 x 15	19	24	120	28	4	22	JIS	H4

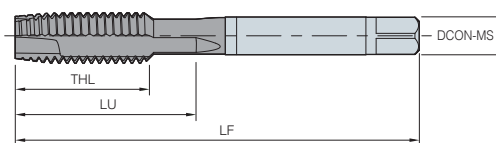
• Applicable workpiece range

◎ : Excellent ○ : Good

Division	Carbon steel			Alloy steel	Quenched and tempered steel			Stainless steel	Tool steel	Cast steel	Cast iron	Ductile cast iron	Copper	Brass	Brass cast	Bronze	Aluminum rolled material	Aluminum cast, alloyed	Magnesium cast, alloyed	Zinc cast, alloyed	Titanium alloy	Nickel alloy	Thermo setting plastic	Thermo plastic
DIN	~C25	C25~C45	C45~	CrMoS4	25~45 Hrc	45~55 Hrc	50~60 Hrc	CrNi	X30W CrV9.3	GS	GG	GGG	Cu	17660	17660	CAC	AWxx	G-AISI, GD-AIMg	MC	-	Ti	Ni	Bakelite phenol epoxy	Nylon vinyl chloride
JIS	~S25C	S25C~S45C	S45C~	SCM				SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	CAC	Axx	AC, ALDC	MC	ZDC	Ti	Ni		
	○	○	○	○	○			◎	○	○	○	◎						○			○	○	○	



M8/MF8 or below



M10/MF10 or above

(mm)

Designation	TDZ	TP	LU	CZC-MS	DCON-MS	TD	LF	THL	NOF	PHD	BSG	TCTR
SVNHM 0204050	M2	0.4	14	3 x 2.5	3	2	40	8	3	1.6	JIS	H2
025045050	M2.5	0.45	15	3 x 2.5	3	2.5	44	9	3	2.1	JIS	H2
0305050	M3	0.5	18	4 x 3.2	4	3	46	11	3	2.5	JIS	H2
0407050	M4	0.7	21	5 x 4	5	4	52	13	3	3.3	JIS	H2
04507550	M4.5	0.75	21	5 x 4	5	4.5	55	13	3	3.8	JIS	H2
0508050	M5	0.8	25	5.5 x 4.5	5.5	5	60	16	3	4.2	JIS	H2
0610050	M6	1	30	6 x 4.5	6	6	62	19	3	5	JIS	H2
0812550	M8	1.25	35	6.2 x 5	6.2	8	70	22	3	6.8	JIS	H3
1015050	M10	1.5	39	7 x 5.5	7	10	75	24	3	8.5	JIS	H3
1217550	M12	1.75	48	8.5 x 6.5	8.5	12	82	29	3	10.2	JIS	H4
1420050	M14	2	48	10.5 x 8	10.5	14	88	30	3	12	JIS	H4
1620050	M16	2	52	12.5 x 10	12.5	16	95	32	3	14	JIS	H4
1825050	M18	2.5	55	14 x 11	14	18	100	34	4	15.5	JIS	H4
2025050	M20	2.5	58	15 x 12	15	20	105	34	4	17.5	JIS	H4
2225050	M22	2.5	63	17 x 13	17	22	115	34	4	19.5	JIS	H4
2430050	M24	3	66	19 x 15	19	24	120	38	4	21	JIS	H4
0405050	MF4	0.5	21	5 x 4	5	4	52	10	3	3.5	JIS	H2
0505050	MF5	0.5	25	5.5 x 4.5	5.5	5	60	12	3	4.5	JIS	H2
0607550	MF6	0.75	30	6 x 4.5	6	6	62	14	3	5.3	JIS	H2
0807550	MF8	0.75	35	6.2 x 5	6.2	8	70	19	3	7.3	JIS	H3
0810050	MF8	1	35	6.2 x 5	6.2	8	70	19	3	7	JIS	H3
1007550	MF10	0.75	39	7 x 5.5	7	10	75	20	3	9.3	JIS	H3
1010050	MF10	1	39	7 x 5.5	7	10	75	20	3	9	JIS	H3
1012550	MF10	1.25	39	7 x 5.5	7	10	75	20	3	8.8	JIS	H3
1210050	MF12	1	48	8.5 x 6.5	8.5	12	82	22	3	11	JIS	H3
1212550	MF12	1.25	48	8.5 x 6.5	8.5	12	82	22	3	10.8	JIS	H3
1215050	MF12	1.5	48	8.5 x 6.5	8.5	12	82	22	3	10.5	JIS	H3
1410050	MF14	1	48	10.5 x 8	10.5	14	88	22	3	13	JIS	H3
1415050	MF14	1.5	48	10.5 x 8	10.5	14	88	22	3	12.5	JIS	H3
1615050	MF16	1.5	52	12.5 x 10	12.5	16	95	22	3	14.5	JIS	H3
1815050	MF18	1.5	55	14 x 11	14	18	100	25	4	16.5	JIS	H4
2015050	MF20	1.5	58	15 x 12	15	20	105	25	4	18.5	JIS	H4
2215050	MF22	1.5	63	17 x 13	17	22	115	25	4	20.5	JIS	H4
2415050	MF24	1.5	66	19 x 15	19	24	120	28	4	22.5	JIS	H4
2420050	MF24	2	66	19 x 15	19	24	120	28	4	22	JIS	H4

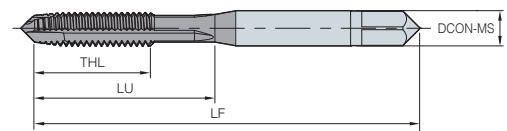
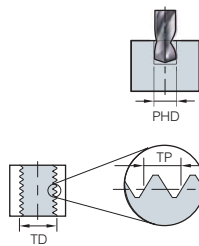
• Applicable workpiece range

◎ : Excellent ○ : Good

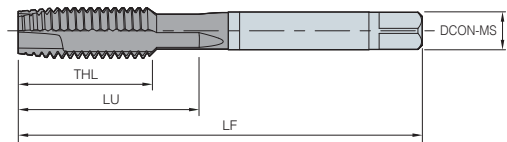
Division	Carbon steel			Alloy steel	Quenched and tempered steel			Stainless steel	Tool steel	Cast steel	Cast iron	Ductile cast iron	Copper	Brass	Brass cast	Bronze	Aluminum rolled material	Aluminum cast, alloyed	Magnesium cast, alloyed	Zinc cast, alloyed	Titanium alloy	Nickel alloy	Thermo setting plastic	Thermo plastic
DIN	~C25	C25~C45	C45~	CrMoS4	25~45 Hrc	45~55 Hrc	50~60 Hrc	CrNi	X30W CrV9.3	GS	GG	GGG	Cu	17660	17660	CAC	AWxx	G-AISI, GD-AIMg	MC	-	Ti	Ni	Bakelite phenol epoxy	Nylon vinyl chloride
JIS	~S25C	S25C~S45C	S45C~	SCM				SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	CAC	Axx	AC, ALDC	MC	ZDC	Ti	Ni		
	◎	◎	◎	◎	○					◎	○	○						◎						

SVNOM

Spiral point Tap



M8/MF8 or below



M10/MF10 or above

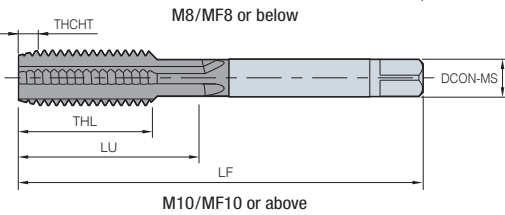
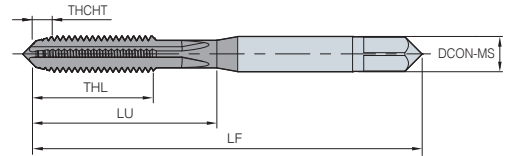
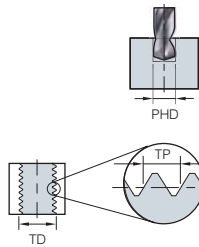
(mm)

Designation	TDZ	TP	LU	CZC-MS	DCON-MS	TD	LF	THL	NOF	PHD	BSG	TCTR
SVNOM 0204050	M2	0.4	14	3 x 2.5	3	2	40	8	2	1.6	JIS	H2
025045050	M2.5	0.45	15	3 x 2.5	3	2.5	44	9	2	2.1	JIS	H2
0305050	M3	0.5	18	4 x 3.2	4	3	46	11	2	2.5	JIS	H2
0407050	M4	0.7	21	5 x 4	5	4	52	13	2	3.3	JIS	H2
04507550	M4.5	0.75	21	5 x 4	5	4.5	55	13	2	3.8	JIS	H2
0508050	M5	0.8	25	5.5 x 4.5	5.5	5	60	16	2	4.2	JIS	H2
0610050	M6	1	30	6 x 4.5	6	6	62	19	2	5	JIS	H2
0812550	M8	1.25	35	6.2 x 5	6.2	8	70	22	2	6.8	JIS	H3
1015050	M10	1.5	39	7 x 5.5	7	10	75	24	2	8.5	JIS	H3
1217550	M12	1.75	48	8.5 x 6.5	8.5	12	82	29	3	10.2	JIS	H4
1420050	M14	2	48	10.5 x 8	10.5	14	88	30	3	12	JIS	H4
1620050	M16	2	52	12.5 x 10	12.5	16	95	32	3	14	JIS	H4
1825050	M18	2.5	55	14 x 11	14	18	100	34	3	15.5	JIS	H4
2025050	M20	2.5	58	15 x 12	15	20	105	34	4	17.5	JIS	H4
2225050	M22	2.5	63	17 x 13	17	22	115	34	4	19.5	JIS	H4
2430050	M24	3	66	19 x 15	19	24	120	38	4	21	JIS	H4
0405050	MF4	0.5	21	5 x 4	5	4	52	10	2	3.5	JIS	H2
0505050	MF5	0.5	25	5.5 x 4.5	5.5	5	60	12	2	4.5	JIS	H2
0607550	MF6	0.75	30	6 x 4.5	6	6	62	14	2	5.3	JIS	H2
0807550	MF8	0.75	35	6.2 x 5	6.2	8	70	19	2	7.3	JIS	H3
0810050	MF8	1	35	6.2 x 5	6.2	8	70	19	2	7	JIS	H3
1007550	MF10	0.75	39	7 x 5.5	7	10	75	20	2	9.3	JIS	H3
1010050	MF10	1	39	7 x 5.5	7	10	75	20	2	9	JIS	H3
1012550	MF10	1.25	39	7 x 5.5	7	10	75	20	2	8.8	JIS	H3
1210050	MF12	1	48	8.5 x 6.5	8.5	12	82	22	3	11	JIS	H3
1212550	MF12	1.25	48	8.5 x 6.5	8.5	12	82	22	3	10.8	JIS	H3
1215050	MF12	1.5	48	8.5 x 6.5	8.5	12	82	22	3	10.5	JIS	H3
1410050	MF14	1	48	10.5 x 8	10.5	14	88	22	3	13	JIS	H3
1415050	MF14	1.5	48	10.5 x 8	10.5	14	88	22	3	12.5	JIS	H3
1615050	MF16	1.5	52	12.5 x 10	12.5	16	95	22	3	14.5	JIS	H3
1815050	MF18	1.5	55	14 x 11	14	18	100	25	3	16.5	JIS	H4
2015050	MF20	1.5	58	15 x 12	15	20	105	25	4	18.5	JIS	H4
2215050	MF22	1.5	63	17 x 13	17	22	115	25	4	20.5	JIS	H4
2415050	MF24	1.5	66	19 x 15	19	24	120	28	4	22.5	JIS	H4
2420050	MF24	2	66	19 x 15	19	24	120	28	4	22	JIS	H4

• Applicable workpiece range

◎ : Excellent ○ : Good

Division	Carbon steel			Alloy steel	Quenched and tempered steel			Stainless steel	Tool steel	Cast steel	Cast iron	Ductile cast iron	Copper	Brass	Brass cast	Bronze	Aluminum rolled material	Aluminum cast, alloyed	Magnesium cast, alloyed	Zinc cast, alloyed	Titanium alloy	Nickel alloy	Thermo setting plastic	Thermo plastic
DIN	~C25	C25~C45	C45~	CrMoS4	25~45 Hrc	45~55 Hrc	50~60 Hrc	CrNi	X30W CrV9.3	GS	GG	GGG	Cu	17660	17660	CAC	AWxx	G-AISI, GD-AIMg	MC	-	Ti	Ni	Bakelite phenol epoxy	Nylon vinyl chloride
JIS	~S25C	S25C~S45C	S45C~	SCM				SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	CAC	Axx	AC, ALDC	MC	ZDC	Ti	Ni		
													◎	◎	◎	◎	◎	◎	○	○			◎	



(mm)

Designation	TDZ	TP	LU	CZC-MS	DCON-MS	TD	LF	THL	NOF	PHD	BSG	THCHT	TCTR
SVSAM													
0305015	M3	0.5	18	4 x 3.2	4	3	46	11	3	2.5	JIS	E	H2
0407015	M4	0.7	21	5 x 4	5	4	52	13	3	3.3	JIS	E	H2
04507515	M4.5	0.75	21	5 x 4	5	4.5	55	13	3	3.8	JIS	E	H2
0508015	M5	0.8	25	5.5 x 4.5	5.5	5	60	16	3	4.2	JIS	E	H2
0610015	M6	1	30	6 x 4.5	6	6	62	19	4	5	JIS	E	H2
0812515	M8	1.25	35	6.2 x 5	6.2	8	70	22	4	6.8	JIS	E	H3
1015015	M10	1.5	39	7 x 5.5	7	10	75	24	4	8.5	JIS	E	H3
1217515	M12	1.75	48	8.5 x 6.5	8.5	12	82	29	4	10.2	JIS	E	H4
1420015	M14	2	48	10.5 x 8	10.5	14	88	30	4	12	JIS	E	H4
1620015	M16	2	52	12.5 x 10	12.5	16	95	32	4	14	JIS	E	H4
1825015	M18	2.5	55	14 x 11	14	18	100	34	4	15.5	JIS	E	H4
2025015	M20	2.5	58	15 x 12	15	20	105	34	4	17.5	JIS	E	H4
2225015	M22	2.5	63	17 x 13	17	22	115	34	4	19.5	JIS	E	H4
2430015	M24	3	66	19 x 15	19	24	120	38	4	21	JIS	E	H4
0810015	MF8	1	35	6.2 x 5	6.2	8	70	19	4	7	JIS	E	H3
1012515	MF10	1.25	39	7 x 5.5	7	10	75	20	4	8.8	JIS	E	H3
1210015	MF12	1	48	8.5 x 6.5	8.5	12	82	22	4	11	JIS	E	H3
1212515	MF12	1.25	48	8.5 x 6.5	8.5	12	82	22	4	10.8	JIS	E	H3
1215015	MF12	1.5	48	8.5 x 6.5	8.5	12	82	22	4	10.5	JIS	E	H3
1415015	MF14	1.5	48	10.5 x 8	10.5	14	88	22	4	12.5	JIS	E	H3
1615015	MF16	1.5	52	12.5 x 10	12.5	16	95	22	4	14.5	JIS	E	H3
1815015	MF18	1.5	55	14 x 11	14	18	100	25	4	16.5	JIS	E	H4
2015015	MF20	1.5	58	15 x 12	15	20	105	25	4	18.5	JIS	E	H4
2215015	MF22	1.5	63	17 x 13	17	22	115	25	4	20.5	JIS	E	H4
2415015	MF24	1.5	66	19 x 15	19	24	120	28	4	22.5	JIS	E	H4
2420015	MF24	2	66	19 x 15	19	24	120	28	4	22	JIS	E	H4
0305050	M3	0.5	18	4 x 3.2	4	3	46	11	3	2.5	JIS	B	H2
0407050	M4	0.7	21	5 x 4	5	4	52	13	3	3.3	JIS	B	H2
04507550	M4.5	0.75	21	5 x 4	5	4.5	55	13	3	3.8	JIS	B	H2
0508050	M5	0.8	25	5.5 x 4.5	5.5	5	60	16	3	4.2	JIS	B	H2
0610050	M6	1	30	6 x 4.5	6	6	62	19	4	5	JIS	B	H2
0812550	M8	1.25	35	6.2 x 5	6.2	8	70	22	4	6.8	JIS	B	H3
1015050	M10	1.5	39	7 x 5.5	7	10	75	24	4	8.5	JIS	B	H3
1217550	M12	1.75	48	8.5 x 6.5	8.5	12	82	29	4	10.2	JIS	B	H4
1420050	M14	2	48	10.5 x 8	10.5	14	88	30	4	12	JIS	B	H4
1620050	M16	2	52	12.5 x 10	12.5	16	95	32	4	14	JIS	B	H4
1825050	M18	2.5	55	14 x 11	14	18	100	34	4	15.5	JIS	B	H4
2025050	M20	2.5	58	15 x 12	15	20	105	34	4	17.5	JIS	B	H4
2225050	M22	2.5	63	17 x 13	17	22	115	34	4	19.5	JIS	B	H4
2430050	M24	3	66	19 x 15	19	24	120	38	4	21	JIS	B	H4
0810050	MF8	1	35	6.2 x 5	6.2	8	70	19	4	7	JIS	B	H3
1012550	MF10	1.25	39	7 x 5.5	7	10	75	20	4	8.8	JIS	B	H3
1210050	MF12	1	48	8.5 x 6.5	8.5	12	82	22	4	11	JIS	B	H3
1212550	MF12	1.25	48	8.5 x 6.5	8.5	12	82	22	4	10.8	JIS	B	H3
1215050	MF12	1.5	48	8.5 x 6.5	8.5	12	82	22	4	10.5	JIS	B	H3
1415050	MF14	1.5	48	10.5 x 8	10.5	14	88	22	4	12.5	JIS	B	H3
1615050	MF16	1.5	52	12.5 x 10	12.5	16	95	22	4	14.5	JIS	B	H3
1815050	MF18	1.5	55	14 x 11	14	18	100	25	4	16.5	JIS	B	H4
2015050	MF20	1.5	58	15 x 12	15	20	105	25	4	18.5	JIS	B	H4
2215050	MF22	1.5	63	17 x 13	17	22	115	25	4	20.5	JIS	B	H4
2415050	MF24	1.5	66	19 x 15	19	24	120	28	4	22.5	JIS	B	H4
2420050	MF24	2	66	19 x 15	19	24	120	28	4	22	JIS	B	H4

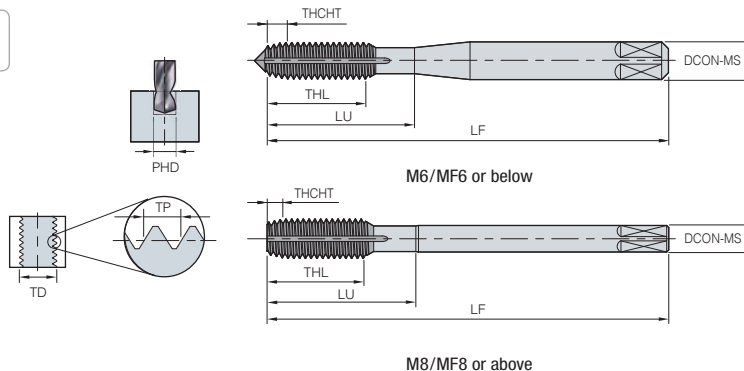
• Applicable workpiece range

◎ : Excellent ○ : Good

Division	Carbon steel		Alloy steel	Quenched and tempered steel			Stainless steel	Tool steel	Cast steel	Cast iron	Ductile cast iron	Copper	Brass	Brass cast	Bronze	Aluminum rolled material	Aluminum cast, alloyed	Magnesium cast, alloyed	Zinc cast, alloyed	Titanium alloy	Nickel alloy	Thermo setting plastic	Thermo plastic	
DIN	~C25	C25~C45	C45~	CrMoS4	25~45 Hrc	45~55 Hrc	50~60 Hrc	CrNi	X30W CrV9.3	GS	GG	GGG	Cu	17660	17660	CAC	AWxx	G-AISI, GD-AIMg	MC	-	Ti	Ni	Bakelite phenol epoxy	Nylon vinyl chloride
JIS	~S25C	S25C~S45C	S45C~	SCM				SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	CAC	Axx	AC, ALDC	MC	ZDC	Ti	Ni		
						○					◎													

SVROM

Roll Tap



(mm)

Designation		TDZ	TP	LU	CZC-MS	DCON-MS	TD	LF	THL	NOF	PHD		BSG	THCHT	TCTR	Oil groove
SVROM	0305020S	M3	0.5	17	4 x 3.2	4	3	46	11	4	2.76	2.81	JIS	C	H5	S
	0305020M	M3	0.5	17	4 x 3.2	4	3	46	11	4	2.76	2.81	JIS	C	H5	M
	0407020S	M4	0.7	19.5	5 x 4	5	4	52	13	4	3.65	3.7	JIS	C	H6	S
	0407020M	M4	0.7	19.5	5 x 4	5	4	52	13	4	3.65	3.7	JIS	C	H6	M
	0508020S	M5	0.8	23	5.5 x 4.5	5.5	5	60	16	4	4.59	4.66	JIS	C	H6	S
	0508020M	M5	0.8	23	5.5 x 4.5	5.5	5	60	16	4	4.59	4.66	JIS	C	H6	M
	0610020S	M6	1	27	6 x 4.5	6	6	62	19	4	5.48	5.57	JIS	C	H7	S
	0610020M	M6	1	27	6 x 4.5	6	6	62	19	4	5.48	5.57	JIS	C	H7	M
	0810020S	M8	1	35	6.2 x 5	6.2	8	70	22	4	7.48	7.57	JIS	C	H7	S
	0810020M	M8	1	35	6.2 x 5	6.2	8	70	22	4	7.48	7.57	JIS	C	H7	M
	0812520S	M8	1.25	35	6.2 x 5	6.2	8	70	22	4	7.34	7.41	JIS	C	H7	S
	0812520M	M8	1.25	35	6.2 x 5	6.2	8	70	22	4	7.34	7.41	JIS	C	H7	M
	1012520S	M10	1.25	40	7 x 5.5	7	10	75	24	4	9.34	9.41	JIS	C	H7	S
	1012520M	M10	1.25	40	7 x 5.5	7	10	75	24	4	9.34	9.41	JIS	C	H7	M
	1015020S	M10	1.5	40	7 x 5.5	7	10	75	24	4	9.18	9.28	JIS	C	H7	S
	1015020M	M10	1.5	40	7 x 5.5	7	10	75	24	4	9.18	9.28	JIS	C	H7	M
	1210020S	M12	1	44	8.5 x 6.5	8.5	12	82	29	4	11.48	11.57	JIS	C	H7	S
	1210020M	M12	1	44	8.5 x 6.5	8.5	12	82	29	4	11.48	11.57	JIS	C	H7	M
	1212520S	M12	1.25	44	8.5 x 6.5	8.5	12	82	29	4	11.34	11.41	JIS	C	H7	S
	1212520M	M12	1.25	44	8.5 x 6.5	8.5	12	82	29	4	11.34	11.41	JIS	C	H7	M
	1215020S	M12	1.5	44	8.5 x 6.5	8.5	12	82	29	4	11.18	11.28	JIS	C	H7	S
	1215020M	M12	1.5	44	8.5 x 6.5	8.5	12	82	29	4	11.18	11.28	JIS	C	H7	M
	1217520S	M12	1.75	44	8.5 x 6.5	8.5	12	82	29	4	11.05	11.15	JIS	C	H8	S
	1217520M	M12	1.75	44	8.5 x 6.5	8.5	12	82	29	4	11.05	11.15	JIS	C	H8	M
	0305040M	M3	0.5	17	4 x 3.2	4	3	46	11	4	2.76	2.81	JIS	B	H5	M
	0407040M	M4	0.7	19.5	5 x 4	5	4	52	13	4	3.65	3.7	JIS	B	H6	M
	0508040M	M5	0.8	23	5.5 x 4.5	5.5	5	60	16	4	4.59	4.66	JIS	B	H6	M
	0610040M	M6	1	27	6 x 4.5	6	6	62	19	4	5.48	5.57	JIS	B	H7	M
	0810040M	M8	1	35	6.2 x 5	6.2	8	70	22	4	7.48	7.57	JIS	B	H7	M
	0812540M	M8	1.25	35	6.2 x 5	6.2	8	70	22	4	7.34	7.41	JIS	B	H7	M
	1012540M	M10	1.25	40	7 x 5.5	7	10	75	24	4	9.34	9.41	JIS	B	H7	M
	1015040M	M10	1.5	40	7 x 5.5	7	10	75	24	4	9.18	9.28	JIS	B	H7	M
	1210040M	M12	1	44	8.5 x 6.5	8.5	12	82	29	4	11.48	11.57	JIS	B	H7	M
	1212540M	M12	1.25	44	8.5 x 6.5	8.5	12	82	29	4	11.34	11.41	JIS	B	H7	M
	1215040M	M12	1.5	44	8.5 x 6.5	8.5	12	82	29	4	11.18	11.28	JIS	B	H7	M
	1217540M	M12	1.75	44	8.5 x 6.5	8.5	12	82	29	4	11.05	11.15	JIS	B	H8	M

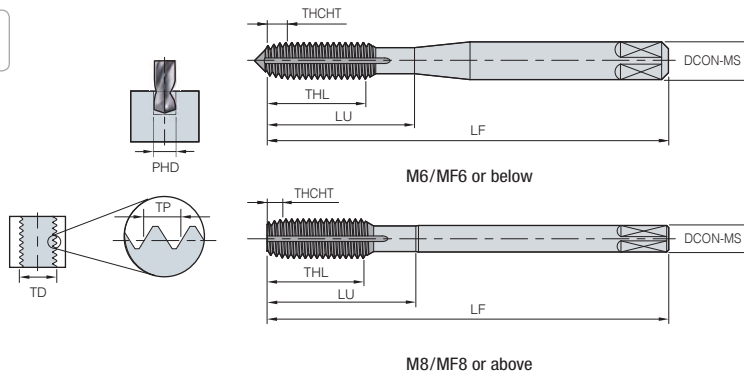
Oil groove S: 1 oil groove

Oil groove M: 4 oil groove

• Applicable workpiece range

◎ : Excellent ○ : Good

Division	Carbon steel			Alloy steel	Quenched and tempered steel			Stainless steel	Tool steel	Cast steel	Cast iron	Ductile cast iron	Copper	Brass	Brass cast	Bronze	Aluminum rolled material	Aluminum cast, alloyed	Magnesium cast, alloyed	Zinc cast, alloyed	Titanium alloy	Nickel alloy	Thermo setting plastic	Thermo plastic
DIN	~C25	C25~C45	C45~	CrMoS4	25~45 Hrc	45~55 Hrc	50~60 Hrc	CrNi	X30W CrV9.3	GS	GG	GGG	Cu	17660	17660	CAC	AWxx	G-AISI, GD-AIMg	MC	-	Ti	Ni	Bakelite phenol epoxy	Nylon vinyl chloride
JIS	~S25C	S25C~S45C	S45C~	SCM				SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	CAC	Axx	AC, ALDC	MC	ZDC	Ti	Ni		
	○	○						○					○	○	○	○	○	○		○				



M8/MF8 or above

(mm)

Designation		TDZ	TP	LU	CZC-MS	DCON-MS	TD	LF	THL	NOF	PHD		BSG	THCHT	TCTR	Oil groove
SVRTM	0305020S	M3	0.5	17	4 x 3.2	4	3	46	11	4	2.76	2.81	JIS	C	H5	S
	0305020M	M3	0.5	17	4 x 3.2	4	3	46	11	4	2.76	2.81	JIS	C	H5	M
	0407020S	M4	0.7	19.5	5 x 4	5	4	52	13	4	3.65	3.7	JIS	C	H6	S
	0407020M	M4	0.7	19.5	5 x 4	5	4	52	13	4	3.65	3.7	JIS	C	H6	M
	0508020S	M5	0.8	23	5.5 x 4.5	5.5	5	60	16	4	4.59	4.66	JIS	C	H6	S
	0508020M	M5	0.8	23	5.5 x 4.5	5.5	5	60	16	4	4.59	4.66	JIS	C	H6	M
	0610020S	M6	1	27	6 x 4.5	6	6	62	19	4	5.48	5.57	JIS	C	H7	S
	0610020M	M6	1	27	6 x 4.5	6	6	62	19	4	5.48	5.57	JIS	C	H7	M
	0810020S	M8	1	35	6.2 x 5	6.2	8	70	22	4	7.48	7.57	JIS	C	H7	S
	0810020M	M8	1	35	6.2 x 5	6.2	8	70	22	4	7.48	7.57	JIS	C	H7	M
	0812520S	M8	1.25	35	6.2 x 5	6.2	8	70	22	4	7.34	7.41	JIS	C	H7	S
	0812520M	M8	1.25	35	6.2 x 5	6.2	8	70	22	4	7.34	7.41	JIS	C	H7	M
	1012520S	M10	1.25	40	7 x 5.5	7	10	75	24	4	9.34	9.41	JIS	C	H7	S
	1012520M	M10	1.25	40	7 x 5.5	7	10	75	24	4	9.34	9.41	JIS	C	H7	M
	1015020S	M10	1.5	40	7 x 5.5	7	10	75	24	4	9.18	9.28	JIS	C	H7	S
	1015020M	M10	1.5	40	7 x 5.5	7	10	75	24	4	9.18	9.28	JIS	C	H7	M
	1210020S	M12	1	44	8.5 x 6.5	8.5	12	82	29	4	11.48	11.57	JIS	C	H7	S
	1210020M	M12	1	44	8.5 x 6.5	8.5	12	82	29	4	11.48	11.57	JIS	C	H7	M
	1212520S	M12	1.25	44	8.5 x 6.5	8.5	12	82	29	4	11.34	11.41	JIS	C	H7	S
	1212520M	M12	1.25	44	8.5 x 6.5	8.5	12	82	29	4	11.34	11.41	JIS	C	H7	M
	1215020S	M12	1.5	44	8.5 x 6.5	8.5	12	82	29	4	11.18	11.28	JIS	C	H7	S
	1215020M	M12	1.5	44	8.5 x 6.5	8.5	12	82	29	4	11.18	11.28	JIS	C	H7	M
	1217520S	M12	1.75	44	8.5 x 6.5	8.5	12	82	29	4	11.05	11.15	JIS	C	H8	S
	1217520M	M12	1.75	44	8.5 x 6.5	8.5	12	82	29	4	11.05	11.15	JIS	C	H8	M
	0305040M	M3	0.5	17	4 x 3.2	4	3	46	11	4	2.76	2.81	JIS	B	H5	M
	0407040M	M4	0.7	19.5	5 x 4	5	4	52	13	4	3.65	3.7	JIS	B	H6	M
	0508040M	M5	0.8	23	5.5 x 4.5	5.5	5	60	16	4	4.59	4.66	JIS	B	H6	M
	0610040M	M6	1	27	6 x 4.5	6	6	62	19	4	5.48	5.57	JIS	B	H7	M
	0810040M	M8	1	35	6.2 x 5	6.2	8	70	22	4	7.48	7.57	JIS	B	H7	M
	0812540M	M8	1.25	35	6.2 x 5	6.2	8	70	22	4	7.34	7.41	JIS	B	H7	M
	1012540M	M10	1.25	40	7 x 5.5	7	10	75	24	4	9.34	9.41	JIS	B	H7	M
	1015040M	M10	1.5	40	7 x 5.5	7	10	75	24	4	9.18	9.28	JIS	B	H7	M
	1210040M	M12	1	44	8.5 x 6.5	8.5	12	82	29	4	11.48	11.57	JIS	B	H7	M
	1212540M	M12	1.25	44	8.5 x 6.5	8.5	12	82	29	4	11.34	11.41	JIS	B	H7	M
	1215040M	M12	1.5	44	8.5 x 6.5	8.5	12	82	29	4	11.18	11.28	JIS	B	H7	M
	1217540M	M12	1.75	44	8.5 x 6.5	8.5	12	82	29	4	11.05	11.15	JIS	B	H8	M

Oil groove S: 1 oil groove

Oil groove M: 4 oil groove

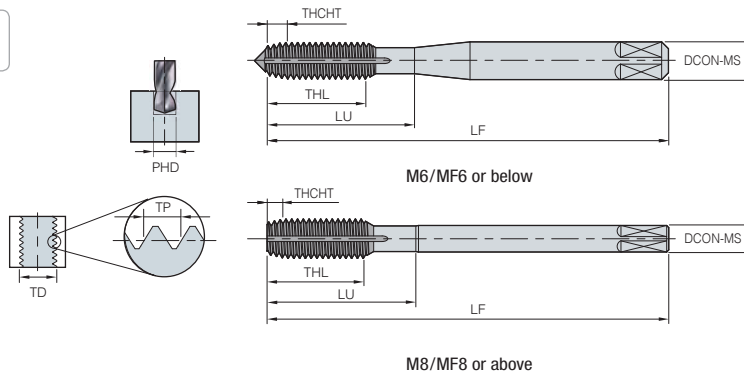
• Applicable workpiece range

◎ : Excellent ○ : Good

Division	Carbon steel			Alloy steel	Quenched and tempered steel			Stainless steel	Tool steel	Cast steel	Cast iron	Ductile cast iron	Copper	Brass	Brass cast	Bronze	Aluminum rolled material	Aluminum cast, alloyed	Magnesium cast, alloyed	Zinc cast, alloyed	Titanium alloy	Nickel alloy	Thermo setting plastic	Thermo plastic
DIN	~C25	C25~C45	C45~	CrMoS4	25~45 Hrc	45~55 Hrc	50~60 Hrc	CrNi	X30W CrV9.3	GS	GG	GGG	Cu	17660	17660	CAC	AWxx	G-AISI, GD-AIMg	MC	-	Ti	Ni	Bakelite phenol epoxy	Nylon vinyl chloride
JIS	~S25C	S25C~S45C	S45C~	SCM				SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	CAC	Axx	AC, ALDC	MC	ZDC	Ti	Ni		
	○	○						○					○	○	○	○	○	○		○				

SVRCM

Roll Tap



(mm)

Designation		TDZ	TP	LU	CZC-MS	DCON-MS	TD	LF	THL	NOF	PHD		BSG	THCHT	TCTR	Oil groove
SVRCM	0305020S	M3	0.5	17	4 x 3.2	4	3	46	11	4	2.76	2.81	JIS	C	H5	S
	0305020M	M3	0.5	17	4 x 3.2	4	3	46	11	4	2.76	2.81	JIS	C	H5	M
	0407020S	M4	0.7	19.5	5 x 4	5	4	52	13	4	3.65	3.7	JIS	C	H6	S
	0407020M	M4	0.7	19.5	5 x 4	5	4	52	13	4	3.65	3.7	JIS	C	H6	M
	0508020S	M5	0.8	23	5.5 x 4.5	5.5	5	60	16	4	4.59	4.66	JIS	C	H6	S
	0508020M	M5	0.8	23	5.5 x 4.5	5.5	5	60	16	4	4.59	4.66	JIS	C	H6	M
	0610020S	M6	1	27	6 x 4.5	6	6	62	19	4	5.48	5.57	JIS	C	H7	S
	0610020M	M6	1	27	6 x 4.5	6	6	62	19	4	5.48	5.57	JIS	C	H7	M
	0810020S	M8	1	35	6.2 x 5	6.2	8	70	22	4	7.48	7.57	JIS	C	H7	S
	0810020M	M8	1	35	6.2 x 5	6.2	8	70	22	4	7.48	7.57	JIS	C	H7	M
	0812520S	M8	1.25	35	6.2 x 5	6.2	8	70	22	4	7.34	7.41	JIS	C	H7	S
	0812520M	M8	1.25	35	6.2 x 5	6.2	8	70	22	4	7.34	7.41	JIS	C	H7	M
	1012520S	M10	1.25	40	7 x 5.5	7	10	75	24	4	9.34	9.41	JIS	C	H7	S
	1012520M	M10	1.25	40	7 x 5.5	7	10	75	24	4	9.34	9.41	JIS	C	H7	M
	1015020S	M10	1.5	40	7 x 5.5	7	10	75	24	4	9.18	9.28	JIS	C	H7	S
	1015020M	M10	1.5	40	7 x 5.5	7	10	75	24	4	9.18	9.28	JIS	C	H7	M
	1210020S	M12	1	44	8.5 x 6.5	8.5	12	82	29	4	11.48	11.57	JIS	C	H7	S
	1210020M	M12	1	44	8.5 x 6.5	8.5	12	82	29	4	11.48	11.57	JIS	C	H7	M
	1212520S	M12	1.25	44	8.5 x 6.5	8.5	12	82	29	4	11.34	11.41	JIS	C	H7	S
	1212520M	M12	1.25	44	8.5 x 6.5	8.5	12	82	29	4	11.34	11.41	JIS	C	H7	M
	1215020S	M12	1.5	44	8.5 x 6.5	8.5	12	82	29	4	11.18	11.28	JIS	C	H7	S
	1215020M	M12	1.5	44	8.5 x 6.5	8.5	12	82	29	4	11.18	11.28	JIS	C	H7	M
	1217520S	M12	1.75	44	8.5 x 6.5	8.5	12	82	29	4	11.05	11.15	JIS	C	H8	S
	1217520M	M12	1.75	44	8.5 x 6.5	8.5	12	82	29	4	11.05	11.15	JIS	C	H8	M
	0305040M	M3	0.5	17	4 x 3.2	4	3	46	11	4	2.76	2.81	JIS	B	H5	M
	0407040M	M4	0.7	19.5	5 x 4	5	4	52	13	4	3.65	3.7	JIS	B	H6	M
	0508040M	M5	0.8	23	5.5 x 4.5	5.5	5	60	16	4	4.59	4.66	JIS	B	H6	M
	0610040M	M6	1	27	6 x 4.5	6	6	62	19	4	5.48	5.57	JIS	B	H7	M
	0810040M	M8	1	35	6.2 x 5	6.2	8	70	22	4	7.48	7.57	JIS	B	H7	M
	0812540M	M8	1.25	35	6.2 x 5	6.2	8	70	22	4	7.34	7.41	JIS	B	H7	M
	1012540M	M10	1.25	40	7 x 5.5	7	10	75	24	4	9.34	9.41	JIS	B	H7	M
	1015040M	M10	1.5	40	7 x 5.5	7	10	75	24	4	9.18	9.28	JIS	B	H7	M
	1210040M	M12	1	44	8.5 x 6.5	8.5	12	82	29	4	11.48	11.57	JIS	B	H7	M
	1212540M	M12	1.25	44	8.5 x 6.5	8.5	12	82	29	4	11.34	11.41	JIS	B	H7	M
	1215040M	M12	1.5	44	8.5 x 6.5	8.5	12	82	29	4	11.18	11.28	JIS	B	H7	M
	1217540M	M12	1.75	44	8.5 x 6.5	8.5	12	82	29	4	11.05	11.15	JIS	B	H8	M

Oil groove S: 1 oil groove

Oil groove M: 4 oil groove

• Applicable workpiece range

◎ : Excellent ○ : Good

Division	Carbon steel			Alloy steel	Quenched and tempered steel			Stainless steel	Tool steel	Cast steel	Cast iron	Ductile cast iron	Copper	Brass	Brass cast	Bronze	Aluminum rolled material	Aluminum cast, alloyed	Magnesium cast, alloyed	Zinc cast, alloyed	Titanium alloy	Nickel alloy	Thermo setting plastic	Thermo plastic
DIN	~C25	C25~C45	C45~	CrMoS4	25~45 Hrc	45~55 Hrc	50~60 Hrc	CrNi	X30W CrV9.3	GS	GG	GGG	Cu	17660	17660	CAC	AWxx	G-AISI, GD-AIMg	MC	-	Ti	Ni	Bakelite phenol epoxy	Nylon vinyl chloride
JIS	~S25C	S25C~S45C	S45C~	SCM				SUS	SKD	SC	FC	FCD	Cu	Bs	BsC	CAC	Axx	AC, ALDC	MC	ZDC	Ti	Ni		
	○	○						○					○	○	○	○	○	○		○				

DTN (Tapping holder)

Code system

BT40	-	DTN	-	22	-	130
Spindle		Tapping holder		Max. chucking dia.		Length

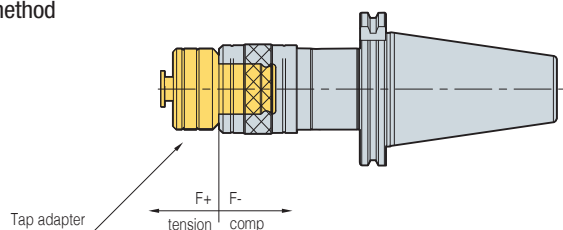
Features

- Quick and convenient modular tool change using exclusive adapter
- Tap life increased in general machining centers through the tension function
- Tapping range : M3~M38



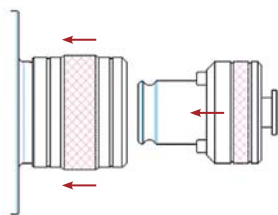
Easy TCA (Tap adapter) change

- Fast tap change per adapter diameter based on the one-touch change method that enables high accuracy and a long service life and useful for various machining operations
- Enables tension and compression using the axial direction floating method



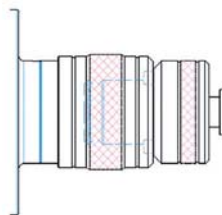
How to clamp TCA and a Tap holder

TCA insertion



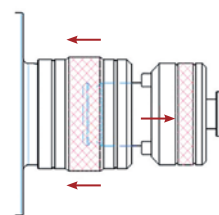
1. Insert TCA after pressing the tap holder cover down.
2. Connect TCA to be aligned with the key groove and press it until you hear a "click" sound

TCA mounting



3. Place the tap holder cover in the normal position

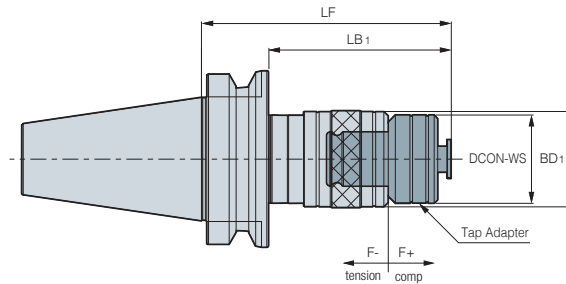
TCA removal



4. Remove TCA after pressing the tap holder cover.

BT-DTN

Tapping holder



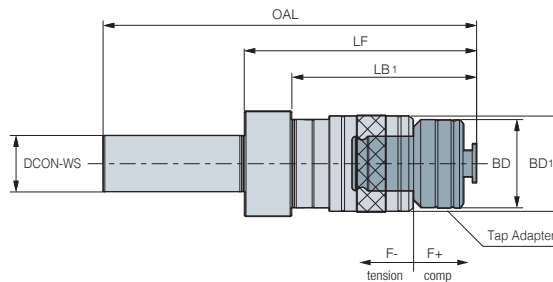
(mm)

Designation	Tapping range	LF	LB1	DCON-WS	BD1	Adaptor	F -	F +	
BT30 - DTN12-85	M3~M12	85	63	32	39	TCA1-M	4	10	0.5
BT40 -	DTN12-90	90	63	32	39	TCA1-M	4	10	1.2
	DTN12-120	120	93	32	39	TCA1-M	4	10	1.5
	DTN22-130	130	103	50	56	TCA2-M	12.5	12.5	1.7
	DTN22-160	160	133	50	56	TCA2-M	12.5	12.5	2.2
BT50 -	DTN12-100	100	62	32	39	TCA1-M	4	10	3.9
	DTN12-130	130	92	32	39	TCA1-M	4	10	3.9
	DTN22-140	140	102	50	56	TCA2-M	12.5	12.5	4.3
	DTN22-170	170	132	50	56	TCA2-M	12.5	12.5	4.7
	DTN38-185	185	147	72	81	TCA3-M	20	20	5.7
	DTN38-215	215	177	72	81	TCA3-M	20	20	6.7

• Internal coolant system not available.

S-DTN

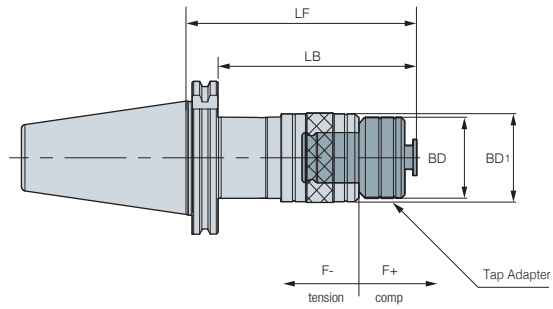
Straight shank tapping holder



(mm)

Designation	Tapping range	BD	DCON-WS	OAL	BD1	LF	LB1	Adaptor	F -	F +	
S32 -	DTN12-90	32	32	170	39	90	63	TCA1	4	10	1.0
	DTN22-130	50	32	210	56	130	103	TCA2	12.5	12.5	1.8

• Internal coolant system not available.



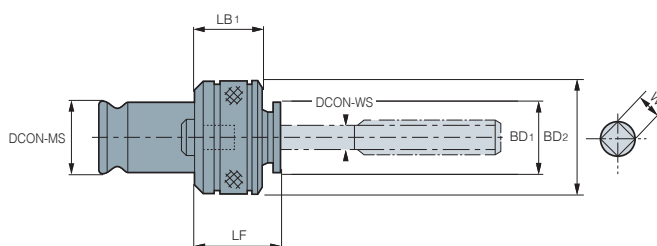
(mm)

Designation		Tapping range	BD	LF	BD1	LB1	Adaptor	F -	F +	
SK40 -	DTN12-90	M3~M12	32	90	39	70.9	TCA1-M	4	10	1.0
	DTN22-130	M8~M22	50	130	56	110.9	TCA2-M	12.5	12.5	1.6
SK50 -	DTN12-100	M3~M12	32	100	39	80.9	TCA1-M	4	10	2.9
	DTN22-140	M8~M22	50	140	56	120.9	TCA2-M	12.5	12.5	3.5

• Internal coolant system not available.

TCA

Tapping holder



(mm)

Designation	DCON-WS	LF	DCON-MS	LB1	BD1	BD2	W	kg
TCA1 -								
M3	4	27	19	25	19	32	3	0.2
M4	5	27	19	25	19	32	4	0.2
M5	6	27	19	25	19	32	4	0.2
M6	6	27	19	25	19	32	4	0.2
M8	6.2	27	19	25	19	32	5	0.2
M10	7	27	19	25	19	32	6	0.2
M11	8	27	19	25	19	32	6	0.2
M12	9	27	19	25	19	32	7	0.2
TCA2 -								
M8	6.2	34	31	31	29	50	5	0.5
M10	7	34	31	31	29	50	6	0.5
M12	8.5	34	31	31	29	50	7	0.5
M14	11	34	31	31	29	50	8	0.5
P1/4	11	34	31	31	29	50	9	0.5
M16	13	34	31	31	29	50	10	0.5
M18	14	34	31	31	29	50	11	0.5
M20	15	34	31	31	29	50	12	0.5
M22	17	34	31	31	29	50	13	0.5
P1/2	18	34	31	31	29	50	14	0.5
M24	19	34	31	31	29	50	15	0.5
TCA3 -								
M16	13	45	48	41	44	72	10	1.4
M18	14	45	48	41	44	72	11	1.4
M20	15	45	48	41	44	72	12	1.4
M22	17	45	48	41	44	72	13	1.4
M24	19	45	48	41	44	72	15	1.4
M27	20	45	48	41	44	72	15	1.4
M30	23	45	48	41	44	72	17	1.4
M33	25	45	48	41	44	72	19	1.4
M36	28	45	48	41	44	72	21	1.4

• Internal coolant system not available.

DST (High speed synchro tapping chuck)

Code system

BT40	-	DST	-	22	-	100
Spindle		Tapping Holder		Max. Chucking dia.		Length

Features

- Tapping chuck for high speed machining
- Specially designed to absorb thrust load to prevent tap damage and a longer tool service life
- Internal coolant applicable
- Tapping range : M1 ~ M22

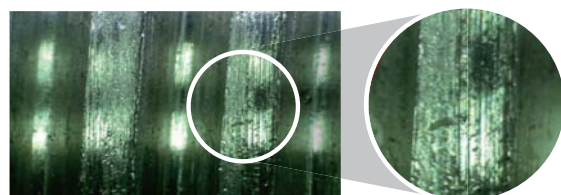


Precise machining



[DST22]

(V=100 m/min)



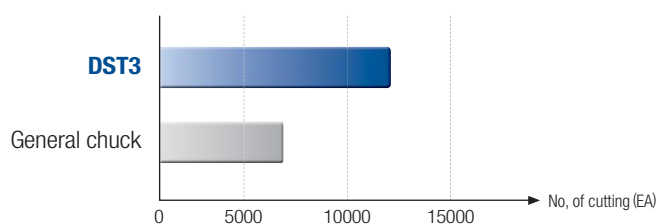
[Conventional one]



Tapping dedicated collet

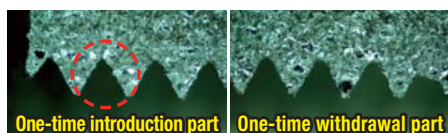
- In the case of tapping, it is recommended to use TER collet.
- DST3 : ER11 collet used

[M1.4x0.3 Life test]



» Increased tool service life versus collet chuck use

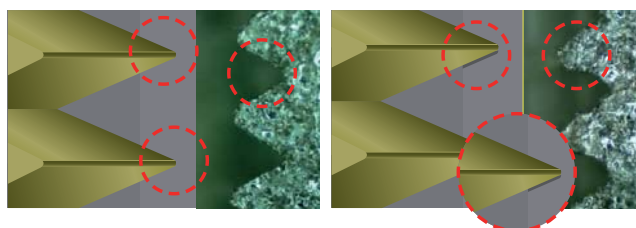
Comparison of Thread shape



[DST]



[General collet chuck]



[Synchro tap chuck (DST3)]

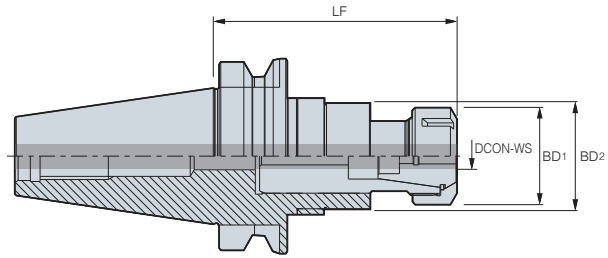
Clean thread shape without collapse

[General collet chuck]

Collapsed thread due to no adjustment for synchro error

BT-DST

High speed synchro tapping chuck



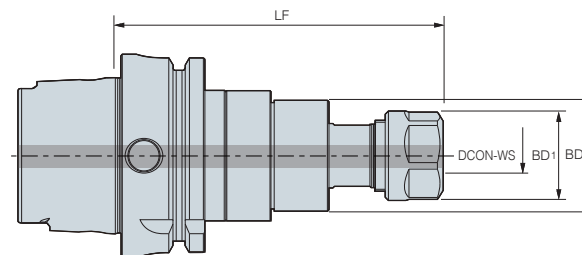
(mm)

Designation		DCON-WS	LF	BD1	BD2	Collet	F -	F +	
BT30 -	DST3-70	M1~M3	70	20	19	ER11	0.5	0.5	0.5
	DST10-100	M3~M10	100	40.4	28	TER16	0.5	0.5	0.8
BT40 -	DST3-70	M1~M3	70	20	19	ER11	0.5	0.5	1.0
	DST10-100	M3~M10	100	40.4	28	TER16	0.5	0.5	1.3
	DST22-110	M6~M22	110	60	50	TER32	0.7	0.7	1.7
BT50 -	DST10-110	M3~M10	110	60	50	TER16	0.5	0.5	3.8
	DST22-130	M6~M22	130	60	50	TER32	0.7	0.7	4.5

• Internal coolant system is optional

HSK-DST

High speed synchro tapping chuck



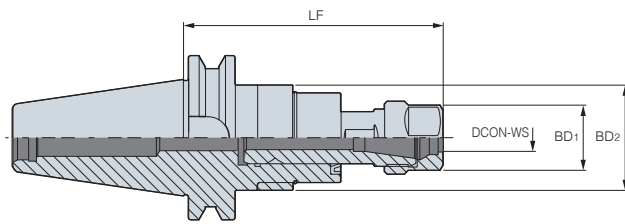
(mm)

Designation	DCON-WS	LF	BD1	BD2	Collet	F -	F +		
HSK63A -	DST3-80	M1~M3	80	19	20	ER11	0.5	0.5	0.7
	DST10-100	M3~M10	100	28	40.4	TER16	0.5	0.5	0.9
	DST22-130	M6~M22	130	49.5	60	TER32	0.7	0.7	1.8

• Internal coolant system is optional

SK-DST

High speed synchro tapping chuck



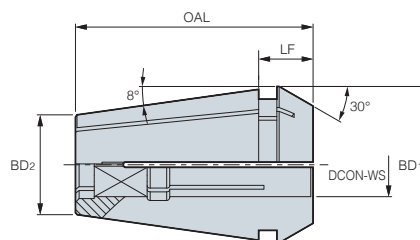
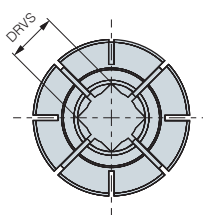
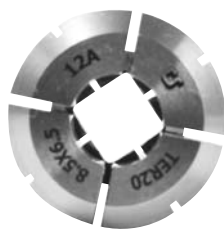
(mm)

Designation	DCON-WS	LF	BD1	BD2	Collet	F -	F +	
SK30 - DST3-70	M1~M3	70	19	20	ER11	0.2	0.2	0.4
SK40 - DST3-70	M1~M3	70	19	20	ER11	0.2	0.2	0.9
DST10-110	M3~M10	110	28	35	TER16	0.5	0.5	1.2
DST22-120	M6~M22	120	50	54	TER32	0.7	0.7	1.8
SK50 - DST10-110	M3~M10	110	28	35	TER16	0.5	0.5	3.0
DST22-120	M6~M22	120	50	54	TER32	0.7	0.7	3.7

• Internal coolant system is optional

Parts

Division	Basic		For separate purchase				Division	For separate purchase
	Nut		Spanner		ER/TER			Coolant tube for HSK
Parts							Parts	
Designation							Designation	
DST3	R11	-	S-17	-	GERC11/ER11-ØD	-	HSK50A	HSK50A-CNS
DST10	R16	-	S-25	-	-	TER16-ØD	HSK63A	HSK63A-CNS
DST22	-	RU32	-	48-52	-	TER32-ØD	HSK100A	HSK100A-CNS

TER**TER Collet**

(mm)

Designation		Tapping range	DCON-WS	OAL	DRVS	BD1	BD2	LF	
TER16 -	4x3.2	M3	4	27.5	3.2	16.74	10.1	6.3	0.03
	5x4	M4	5	27.5	4	16.74	10.1	6.3	0.03
	5.5x4.5	M5	5.5	27.5	4.5	16.74	10.1	6.3	0.02
	6x4.5	M6,U1/4	6	27.5	4.5	16.74	10.1	6.3	0.02
	6.2x5	M7, M8	6.2	27.5	5	16.74	10.1	6.3	0.02
	7x5.5	M9, M10, U3/8	7	27.5	5.5	16.74	10.1	6.3	0.02
TER20 -	5x4	M4	5	31.5	4	20.74	13.2	7.2	0.05
	5.5x4.5	M5	5.5	31.5	4.5	20.74	13.2	7.2	0.05
	6x4.5	M6,U1/4	6	31.5	4.5	20.74	13.2	7.2	0.05
	6.2x5	M7, M8	6.2	31.5	5	20.74	13.2	7.2	0.04
	7x5.5	M9, M10, U3/8	7	31.5	5.5	20.74	13.2	7.2	0.05
	8x6	M11, U7/16, P1/8	8	31.5	6	20.74	13.2	7.2	0.04
	8.5x6.5	M12	8.5	31.5	6.5	20.74	13.2	7.2	0.04
TER25 -	5x4	M4	5	34	4	25.74	17.6	7.5	0.09
	5.5x4.5	M5	5.5	34	4.5	25.74	17.6	7.5	0.08
	6x4.5	M6	6	34	4.5	25.74	17.6	7.5	0.08
	6.2x5	M7, M8	6.2	34	5	25.74	17.6	7.5	0.08
	7x5.5	M9, M10, U3/8	7	34	5.5	25.74	17.6	7.5	0.08
	8.5x6.5	M12	8.5	34	6.5	25.74	17.6	7.5	0.08
TER32 -	6x4.5	M6,U1/4	6	40	4.5	32.74	23.1	8.2	0.2
	6.2x5	M7, M8	6.2	40	5	32.74	23.1	8.2	0.2
	7x5.5	M9, M10, U3/8	7	40	5.5	32.74	23.1	8.2	0.2
	8X6	M11, U7/16, P1/8	8	40	6	32.74	23.1	8.2	0.2
	8.5x6.5	M12	8.5	40	6.5	32.74	23.1	8.2	0.2
	10.5x8	M14, U9/16	10.5	40	8	32.74	23.1	8.2	0.2
	12.5x10	M16	12.5	40	10	32.74	23.1	8.2	0.2
	14x11	M18, P3/8	14	40	11	32.74	23.1	8.2	0.1
	15x12	M20	15	40	12	32.74	23.1	8.2	0.1
	17x13	M22, U7/8	17	40	13	32.74	23.1	8.2	0.1
	11x9	P1/4	11	40	9	32.74	23.1	8.2	0.2
	12x9	U5/8	12	40	9	32.74	23.1	8.2	0.2
	9x7	U1/2	9	40	7	32.74	23.1	8.2	0.2

TEH (Tap Extension Holder)

Code system

TEH	230	D6	J	-	M6	C
Tap Extension Holder	Length	Shank dia.	Type J : JIS Non : DIN		Tap size	Type C : Coolant Non : General

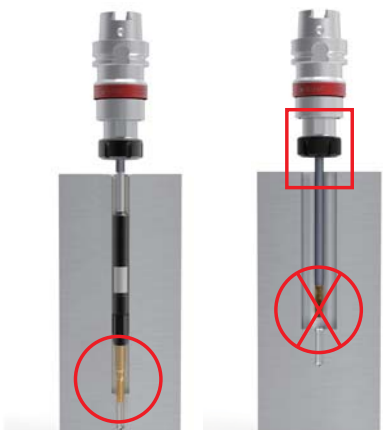
Features

- Product specialized for processing deep, narrow hole taps
- Excellent rigidity and stable runout due to the short incision unit
- Excellent economic efficiency compared to general long tap
- The application of O-Ring prevents over clamping
- Optimized for processing narrow, deep holes such as the hole of an engine



Structure

Processing of deep holes



[TEH]

Processing O

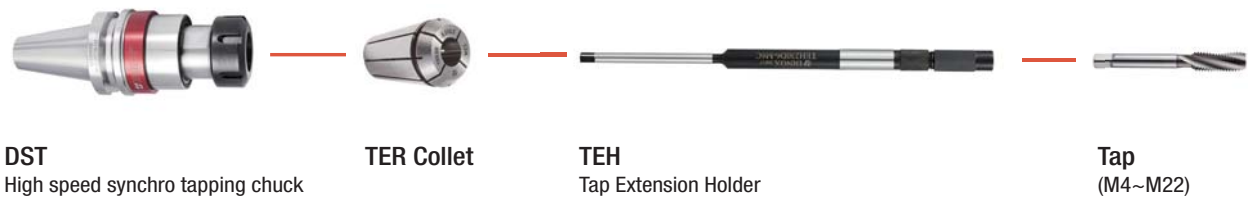
[General long Tap]

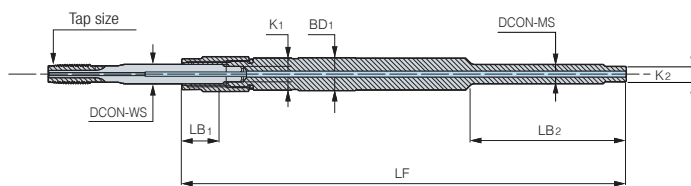
Processing X

Full length comparison	TEH	General long tap
M10	230mm	150mm
M22	330mm	200mm

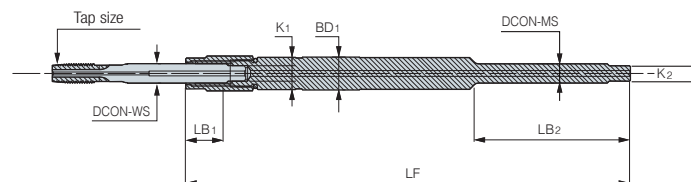
※ Since the full length is longer than that of the general long tap, it is favorable for processing narrow, deep holes.

TEH Setting Method



TEH (JIS)**Tap Extension Holder**

Pic.1

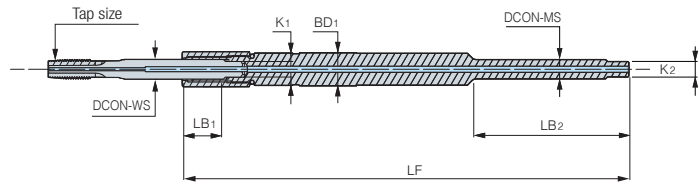


Pic.2

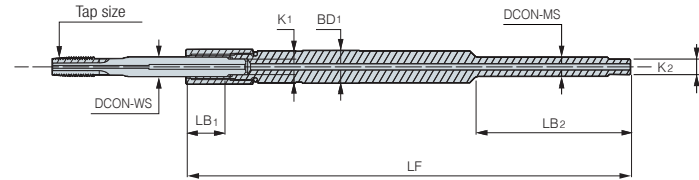
(mm)

Designation		Tapping range	LB1	LB2	LF	BD1	DCON-WS	DCON-MS	K1	K2	Nut external diameter Ø	Pic.
TEH230	D5J-M4	M4	18	50	230	11	5	6	4	4.5	12.1	2
	D6J-M6C	M6	18	50	230	12	6	6	4.5	4.5	13.3	1
	D6.2J-M8C	M8	18	65	230	12	6.2	6.2	5	5	13.3	1
	D7J-M10C	M10	18	65	230	13	7	7	5.5	5.5	14.4	1
	D8.5J-M12C	M12	22	65	230	14	8.5	8.5	6.5	6.5	15.6	1
TEH330	D10.5J-M14C	M14	25	70	330	16	10.5	10.5	8	8	17.9	1
	D12.5J-M16C	M16	25	70	330	18	12.5	12.5	10	10	19.9	1
	D14J-M18C	M18	25	70	330	20	14	14	11	11	21.9	1
	D15J-M20C	M20	25	75	330	21	15	15	12	12	22.9	1
	D17J-M22C	M22	25	75	330	23	17	17	13	13	25.9	1

• Internal coolant system is basic (Fig.2 Designation is non-coolant type)



Pic.1



Pic.2

(mm)

Designation		Tapping range	LB1	LB2	LF	BD1	DCON-WS	DCON-MS	K1	K2	Nut external diameter Ø	Pic.
TEH230	D4.5-M4	M4	18	50	230	10	4.5	6	3.4	4.5	11.1	2
	D6-M6C	M6	20	50	230	12	6	7	4.9	5.5	13.3	1
	D8-M8C	M8	23	65	230	14	8	8	6.3	6.2	15.6	1
	D10-M10C	M10	24	65	230	16	10	10	8	8	17.9	1
	D9-M12C	M12	23	65	230	15	9	9	7	7	16.8	1
TEH330	D11-M14C	M14	26	70	330	17	11	11	9	9	19.1	1
	D12-M16C	M16	26	70	330	18	12	12	9	9	19.9	1
	D14-M18C	M18	28	70	330	20	14	14	11	11	21.9	1
	D16-M20C	M20	28	75	330	22	16	16	12	12	23.9	1
	D18-M22C	M22	28	75	330	24	18	18	14.5	14.5	25.9	1

• Internal coolant system is basic (Fig.2 Designation is non-coolant type)

STER PAT. (DINE Synchro Tapping ER Collet)

Code system

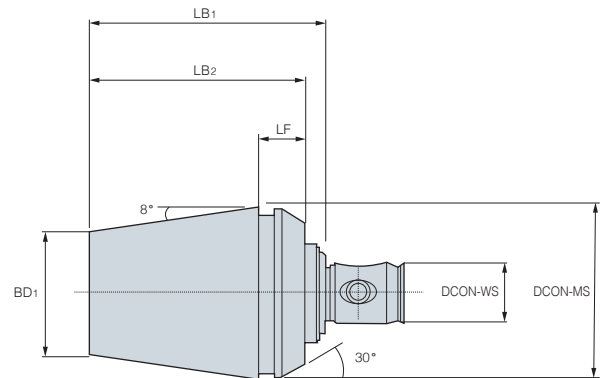
ST	ER	16	M6
Synchronizing Tapping collet	Tool ER: Collet	Collet size	Tap size

Features

- A special ER collet designed to minimize synchronizing error when used with general ER collet chuck.
- Minimized synchronization error, improved thread precision
- Prevented tap damage and extended tool life.
- Improved thread tolerance
- Recommended to use a dedicated tap for high-speed machining.
- Optimized design in MCT with RIGID function



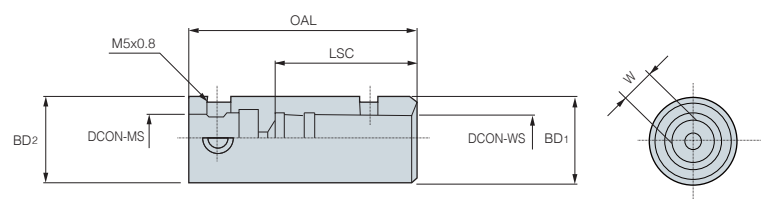
COLLET



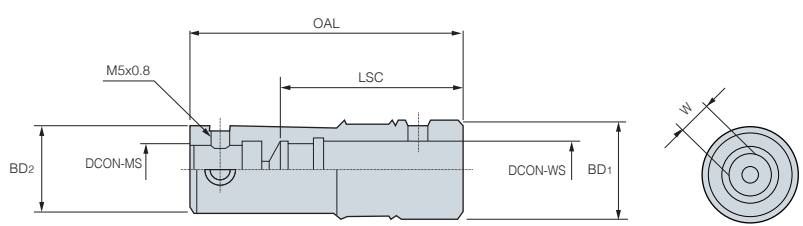
(mm)

Designation	DCON-MS	BD1	DCON-WS	LB1	LB2	LF	Screw 	Wrench 
STER32	32	23.1	11	44	40	8.2	BTTD506F BTTD504	LW-2.5

CONNECTOR



Pic.1



Pic.2

(mm)

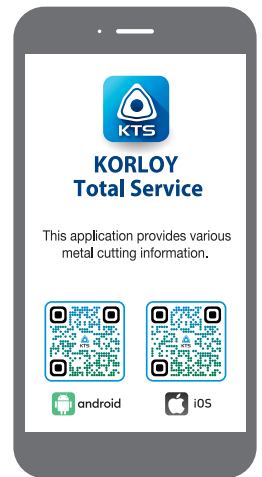
Designation	BD1	BD2	DCON-WS	DCON-MS	OAL	LSC	W	Screw 	Wrench 	Pic.
STER32C-M6	19	21	6	11	50	29.5	4.5	BTTD506F BTTD504	LW-2.5	1
STER32C-M8	19	21	6.2	11	50	30	5			1
STER32C-M10	19	21	7	11	50	29	5.5			1
STER32C-M12	19	21	8.5	11	50	30.5	6.5			1
STER32C-M14	19	21	10.5	11	50	31	8			1
STER32C-M16	19	21	12.5	11	50	40.5	10			2

⚠ For the safe metalcutting

- Use safety supplies such as protective gloves to prevent possible injury while touching the edge of tools.
- Use safety glasses or safety cover to hedge possible dangers. Inappropriate usage or excessive cutting condition may lead tool's breakage or even the fragment's scattering.
- Clamp the workpiece tightly enough to prevent its movement while its machining.
- Properly manage the tool change phase because the inordinately used tool can be easily broken under the excessive cutting load or severe wear, and it may threat the operator's safety.
- Use safety cover because chips evacuated during cutting are hot and sharp and may cause burns and cuts. To remove chips safely, stop machining, put on protective gloves, and use a hook or other tools.
- Prepare for fire prevention measures as the use of the non-water soluble cutting oil may cause fire.
- Use safety cover and other safety supplies because the spare parts or the tools can be pulled out due to centrifugal force while high speed machining.



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